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P708226GB/DE/48534

2. Patent application number (The Patent Office will fill in this part) 0230177.8

3. Full name, address and postcode of the or of each applicant (underline all surnames)

Karo Bio AB Novum SE-141 57 Huddinge Sweden

Patents ADP number (if you know it)

647787/007

If the applicant is a corporate body, give the country/state of its incorporation

Sweden

4. Title of the invention

LXR Beta Crystal

5. Name of your agent (if you have one)

"Address for service" in the United Kingdom to which all correspondence should be sent (including the postcode)

Dr David ELSY WITHERS & ROGERS Goldings House 2 Hays Lane London SE1 2HW

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Description

287

Claim(s)

8

Abstract 1

Drawing (s)

6

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Priority documents

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I/We request the grant of a patent on the basis of this application.

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12. Name and daytime telephone number of person to contact in the United Kingdom

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P708226GB



Protein Crystal

FIELD OF THE INVENTION

The present invention is in the fields of biotechnology, protein purification and crystallization, x-ray diffraction analysis, three-dimensional computer molecular modelling and rational drug design. The invention is directed to the liver X receptor β (LXRβ, NR1H2) and ligands for this receptor, and in particular to crystalline LXRβ and to methods of identifying ligands utilizing LXRβ, as well as to compounds, compositions and methods for selecting, making, and using therapeutic or diagnostic agents having LXRβ modulating or binding activity.

BACKGROUND OF THE INVENTION

Liver X receptors are members of the superfamily of nuclear receptors. These transcription factors regulate target genes through a complex series of interactions with specific DNA response elements as well as transcriptional coregulators. The binding of ligand has profound effects on these interactions and has the potential to trigger both gene activation and, in some cases, gene silencing. There are about 50 sequence-related nuclear receptors in humans and the family comprises receptors that recognize hormones, both steroidal and non-steroidal, but also receptors responding to metabolic intermediates and to xenobiotics. There are also a number of so-called orphan receptors where the natural ligand is unknown. Some of the receptors show a very specific and high affinity ligand binding, like the thyroid hormone receptors, while others have a substantially lower affinity for their ligands and are also highly promiscuous in terms of ligand selectivity. Like many of the other non-steroid hormone receptors, LXR functions as a heterodimer with the 9-cis-retinoic acid receptor (RXR) to regulate gene expression. Together with PPARs and FXR LXRs represent a subclass of so called permissive RXR heterodimers. In this subclass, the RXR heterodimers can be activated independently by either the RXR ligand, the partner's ligand or synergistically by both.

LXRs consist of two closely related receptor isoforms encoded by separate genes – LXR α (NR1H3) and LXR β (NR1H2). As expected, the largest sequence differences are located in the N-terminal domain and in the so-called hinge region connecting the DBD and the LBD. LXR α shows tissue restricted expression with the highest mRNA levels detected in the liver and to a lesser extent in the kidney, small intestine, spleen and adrenal gland . In contrast, LXR β is ubiquitously expressed Both LXR isoforms have been shown to be activated by specific oxysterols that can be formed *in vivo* . Recently potent, non-steroidal synthetic ligands have been described. T0901317 , GW3965 and F3MethylAA all have binding IC50s around 10 nM.

Important insight into LXR biology has been obtained through the study of LXR deficient mice. Both LXRα and LXRβ knockout mice have been described. The LXRα null strain exhibits a striking inability to metabolize and excrete excess cholesterol when challenged with a high-cholesterol diet. The explanation appears to be an inability to up-regulate the rate-limiting enzyme in cholesterol conversion to bile acid, CYP7A, in response to the excess cholesterol. As a consequence, the conversion of cholesterol to bile-acid that would normally occur is blunted and cholesteryl esters deposit in the liver ultimately resulting in liver-failure. In contrast, the LXRB knockout strain maintains its natural resistance to a high cholesterol diet These important findings not only prove an important function of LXRa in rodent cholesterol metabolism, but also suggest that the LXR dependent regulation of CYP7A is LXR-subtype selective. The CYP7A LXR response element is not well conserved between rodents and man. LXRs are therefore not expected to be main regulators of cholesterol conversion to bile-acids in humans. This notion is supported by results from in vitro assays using cultured human cells. However, more recently, LXRs have been shown to regulate also several other genes involved in cholesterol and lipid homeostasis. Prominent examples are the phospholipid/cholesteryl ester transporter ABCA1, ABCG1 and the SREBP1c gene that, in turn, induces fatty acid synthesizing enzymes. Increasing insight into the involvement of LXRs in cholesterol and fatty acid homeostasis has led to considerable interest in LXRs as targets for drug development. As an example, one hallmark of atherosclerosis is the build-up of cholesteryl esters in

macrophages of the arterial wall, transforming the cells into so-called foam cells that, in turn are constituents of the atherosclerotic plaque. The potential to increase cholesterol efflux from macrophages/foam cells by inducing genes such as ABCA1 and /or G1 thereby preventing or even reversing the atherosclerotic process make LXRs highly interesting drug targets.

The inventor's understanding of how nuclear receptor ligands exert their effects has been dramatically enhanced by the elucidation of the crystal structures of the apo or liganded LBDs of several nuclear receptors. These structures have revealed a common, mainly α helical, fold unique for LBDs of nuclear receptors. It comprises a core layer of three helices (H5/6, H9 and H10) sandwiched between two additional layers of helices (H1-4 and H7, H8, H11 respectively). This arrangement creates a wedge shaped molecular scaffold that contains a wider upper part, which shows the highest degree of sequence conservation a between the LBDs. The narrower lower part is folded to form a hydrophobic cavity into which the ligand can bind. The remaining secondary elements, an antiparallel β-sheet comprising 2-4 strands and H12 (sometimes also referred to as the AF-2 domain) sits on each side of the ligand-binding cavity. The structures have revealed that ligands can affect the position of H12 so that an agonist puts H12 in a position allowing coactivator binding and preventing corepressor binding, while in an unliganded or antagonist bound receptor the coactivator binding site is blocked. Alternatively, the unliganded or antagonist bound receptor recruits corepressors. The binding modes of several of these coregulators have also recently been depicted in detail.

The present inventors have been able to produce LXR β crystals and to determine from that the three dimensional structure of the LXR β ligand binding domain (LBD).

SUMMARY OF THE INVENTION

The present invention refers to the crystallization of LXR β and determination of its crystallographic co-ordinates. Therefore, in a first aspect the present invention provides a LXR β ligand binding domain crystal.

In another aspect of the invention, methods for designing ligands which will bind to LXR β are provided. Such methods use three-dimensional models based on the crystals of the

LXRβ ligand-binding domain. Generally, such methods comprise, determining compounds which are likely to bind to the receptor based on their three dimensional shape in particular the ligand binding domain of the LXRβ. Preferably, such compounds have a structure that is complementary to the ligand-binding cavity of the LXRβ. Such methods comprise the steps of determining which amino acid or amino acids of the ligand-binding domain of the LXRβ interacts with the binding ligand, and selecting compounds or modifying existing compounds, to improve the interaction. Preferably, improvements in the interaction are manifested as increases in the binding affinity but may also include increases in receptor selectivity and/or modulation of efficacy.

Preferably, the ligands bind to the internal LXRβ binding cavity with a high binding affinity, for example within the range of 0.01–1000 nM.

The ligands may bind tightly to the LXR β yet not up-regulate gene expression thereby inhibiting the action of endogenous LXR β activators. Thus, the invention also provides a method of inhibiting the activity of endogenous LXR β activators by providing ligands that bind to LXR β with a high affinity, blocking the activity of the endogenous ligands. Alternatively, binding of the ligand to the LXR β may cause conformational changes to the LXR β inhibiting further binding thereto. The invention further provides a method of inhibiting the activity of endogenous LXR β ligands in an animal, the method comprising administering to the animal a ligand which binds to at least the LBD, of the LXR β with high affinity and blocks binding of further ligands to at least the LBD of the LXR β . Such ligands are potentially useful in, for example, the treatment of LXR β mediated diseases in humans. Preferably the ligands are identified by the method of designing ligands according to the invention.

DETAILED DESCRIPTION OF THE INVENTION

One aspect of the invention provides a crystal comprising at least 150 amino acid residues of the LXRβ-ligand-binding-domain. Preferably, the said-crystal-comprises at least 200 amino acid residues of LXRβ. More preferably, said crystal contains at least 250 amino

acid residues of LXR β . Most preferably, the said crystal comprises the entire LXR β amino acid sequence.

Preferably the crystal comprises the amino acid sequence shown as Leu-220 to Asp-458 most preferably Leu-220 to Glu-461 of a LXRβ ligand binding domain as shown in Figure 5 or an amino acid sequence having at least 95%, especially above 97, 98 or 99% identity to the sequence. This numbering is based on the full sequence of human LXRβ. Preferably, the crystal comprises the entire amino acid sequence shown in Figure 5.

Isolated protein consisting of the amino acid sequence listed for the crystals are also provided by the invention. The isolated protein may be used to produce the crystals.

The proposed structural identity (based on analogy to the estrogen receptor and thyroid hormone receptor) of parts of the LXR β ligand-binding domain is shown below, based on the amino acid numbering of the full LXR β .

Secondary motif	LXRβ residues
Helix-1	Thr-221 to Val-249
Helix-3	Ala-261 to Val-289
Helix-4	Gly-291 to Gln-294
Helix 5	Gly-296 to Thr-308
Helix 6	Thr-308 to Arg-319
Sheet-1	Tyr-320 to His-322
Sheet-2	Glu-325 to Phe-329
Sheet-3	Phe-333 to Ser-336
Helix-7	Ser-336 to Ala-343
Helix-8	Gln-346 to Gly-364
Helix-9	Asp-366 to Ser-380
Helix-10	Pro-389 to Ile-409
Helix-11	Asp-414 to Gln-445
Helix-12	Pro-450 to Ile-456

An embodiment of this aspect of the invention provides a crystal produced using a sequence including helix 12 of LXRβ. Preferably this is between Pro450 to Ile-456.

The crystals according to the invention may be usable in X-ray crystallography.

In another embodiment of the present invention there is provided a LXR β crystal as described above also including a ligand bound to LXR β or a portion thereof. Said ligand may be selected from T0901317

(N-(2,2,2-trifluoroethyl)-N-[4-[2,2,2-trifluoro-1-hydroxy-1-(trifluoromethyl)ethyl]phenyl]-benzenesulfonamide, CAS # [293754-55-9]; WO 00/54759), G-W-3965

(3-(3-(2-chloro-3-trifluoromethylbenzyl-2,2-diphenylethylamino)propoxy)phenylacetic acid, CAS # [405911-09-3]; Collins, Jon L.; et al. *J. Med. Chem.* (2002), 45(10), 1963-1966), 24(S),25-epoxycholesterol (CAS # [77058-74-3]),

N-[1-(2-furanyl)ethyl]-N-4-pyridinyl-tricyclo[3.3.1.13,7]decane-1-carboxamide (CAS # [355833-66-8], WO-01/60818) or any other ligand that binds with reasonably affinity (<1000 nM) to the internal LXR β binding cavity. The T0901317, G-W-3965 or any other ligand may be used with a coactivator ligand such as T1F2 NR-box 1.

In another embodiment of the present invention there is provided a crystal of LXR β LBD belonging to the space group P2₁2₁2₁ and having the unit cell dimensions a = 59 + /-3 Å, b = 100 + /-5 Å, c = 176 + /-3 Å, $\alpha = \beta = \gamma = 90^{\circ}$.

In another embodiment of the present invention there is provided a crystal of LXR β LBD belonging to the space group P6₁22 and having the unit cell dimensions a=59 +/-3 Å b=59+/-3 Å c=294 +/-3 Å, $\alpha = \beta = 90^{\circ}$, $\gamma=120^{\circ}$.

In another embodiment of the present invention there is provided a crystal of LXR β LDB in complex with a coactivator peptide (such as a peptide corresponding to the first NR-box of TIF2 (Leers, Treuter et al 1998)) belonging to the space group P2₁2₁2 and having the unit cell dimensions a=89+/-3, b=91+/-3, c=131+/-3, $\alpha=\beta=\gamma=90^\circ$.

The crystals according to the invention may have a resolution as determined by X-ray crystallography of less than 3.6Å, preferably less than 2.9Å.

In another aspect of the present invention, there is provided a machine-readable data storage medium, comprising a data storage material encoded with machine readable data which, when using a machine programmed with instructions for using said data, is capable of displaying a graphical three-dimensional representation of a crystal structure as described above or a homologue of said crystal structure. Homologues include crystals with the same space group, but with another ligand, crystals with the same space group and substantially the same dimensions, and crystals using LXR\$ from other species.

In yet another aspect of the present invention, there is provided a method for designing a potential LXR β ligand for the treatment of diseases modulated by the LXR β , the method comprising the steps of:

- (a) employing computational means to perform a fitting operation between the chemical entity and a binding site of LXR β identified from a machine-readable storage medium as described above; and
- (b) analyzing the results of the fitting operation to predict the association between the potential chemical entity and the binding site.

Preferably the method also comprises the steps of:

- (c) synthesizing the potential LXR β ligand based on the crystal structure of the LXR β ; and
- (d) assaying the LXRβ ligand for LXRβ binding, response in a LXRβ reporter cell line, measuring one or more in vivo effects including but not limited to

lesion area of fatty streaks in the aortic root, lipoprotein profile and serum triglyceride levels.

The method may alternatively provide the steps of:

synthesising the potential LXR β ligand based on the crystal structure of said receptor; and

assaying the LXRβ ligand binding response in a LXRβ reporter cell line by measuring one or more *in vitro* effects, including but not limited to changes in the activity of a LXR response element driven reporter gene such as alkaline phosphatase, green fluorescent protein, or luciferase, changes indicating that the LXRβ ligand may be used for treatment of diseases modulated by LXRβ.

The LXR response element may be provided within, for example, a suitable plasmid containing the response element, reporter gene and suitable termination sequences. The reporter gene will be arranged so that expression of it is under the control of the response element.

Suitable vectors include, but are not limited to, bacterial or eukaryotic vectors such as plasmids or cosmids, phage vectors such as lambda phage, viral vectors such as adenoviral vectors or baculoviral vectors, and other vectors known in the art.

The vector preferably comprises suitable regulatory sequences to allow the nucleic acid molecule of the invention to be expressed in a suitable host cell to produce protein encoded by the nucleic acid molecule. Typically, the vector comprises a suitable promoter and terminator sequences, or other sequences such as poly A sequences, operably linked to the nucleic acid molecule. Such regulatory sequences are well known in the art.

The vector may also comprise a gene to allow the vector to be selected within a cell, such as an antibiotic resistance gene or a nutritional gene. Such genes are well known in the art.

The reporter gene is preferably Green Fluorescent Protein (GFP), which is known in the art. This fluoresces and enables the position of the kinase to be identified.

A further reporter system which may be used is lacZ gene from E.coli. This encodes the β -galactosidase enzyme. This catalyses the hydrolysis of β -galactoside sugars such as lactose. The enzymatic activity in cell extracts can be assayed with various specialised substrates, for example X-gal, which allow enzyme activity quantitation using a spectrophotometer, fluorometer or a luminometer.

Alternatively, the reporter gene may be secreted alkaline phosphatase. This is a secreted enzyme which may be assayed from a supernatent by methods known in the art.

Luciferase, another known reporter gene, may be used. This is derived from the firefly (*Photinus pyralis*). It catalyses a reaction using D-luciferin and ATP in the presence of oxygen and Mg²⁺ to produce light emission. The amount of light produced, and hence the amount of reporter gene produced under the control of the reporter element, may then be quantified.

The inventors have also identified that helix-12 of LXR β plays a key role in determining the efficacy (agonism v. antagonism) of a ligand.

Accordingly, preferably the method includes the step of modifying the potential LXRB ligand so that it:

- (a) sterically displaces helix-12; or
- (b) disrupts the dimerisation surface.

The dimerisation interface has been identified as helices H10 and H11.

In yet another aspect of the present invention, there is provided a method of designing a ligand which will bind to LXR β comprising comparing the shape of a compound with the shape of the ligand binding cavity of LXR β as obtained from a crystal according to the invention, and determining which amino acid or amino acids of the ligand binding domain interact with said compound.

In yet another aspect of the present invention, there is provided a crystallized molecule or molecular complex comprising a binding pocket defined by the structure coordinates of human LXRβ ligand binding domain amino acid residues 200 or a homologue of said molecule or molecular complex wherein said homologue has a root mean square deviation form the backbone atoms of said amino acids of not more than 1.5 Å.

In a preferred embodiment of this aspect there is provided a crystallized molecule or molecular complex comprising a binding pocket defined by the structure coordinates of human LXRβ ligand binding domain amino acid residues Ser242, Phe268, Phe271, Thr272, Leu274, Ala275, Ser278, Ile309, Met312, Leu313, Glu315, Thr316, Arg319, Ile327, Phe329, Leu330, Tyr335, Phe340, Leu345, Phe349, Ile350, Ile353, Phe354, His435, Gln438, Val439, Leu442, Leu449, Leu453, Trp457 or a homologue of said molecule or molecular complex wherein said homologue has a root mean square deviation form the backbone atoms of said amino acids of not more than 1.5 Å.

A further aspect of the invention provides crystallisable compositions comprising at least 250 amino acid residues of the LXRβ ligand-binding domain.

A further aspect of the invention provides a method of using the crystal of the invention in a drug screening assay comprising:

- (a) selecting a potential ligand by performing rational drug design with the three-dimensional structure determined for the crystal, wherein said selecting is performed in conjunction with computer modelling;
- (b) contacting (i.e. docking) the potential ligand with the ligand binding domain of LXRβ; and
- (c) detecting the binding of potential ligand for the ligand binding domain Preferably, a potential drug is selected on the basis of it having a greater affinity for the ligand domain of LXRβ than that of a standard ligand for the ligand binding domain of LXRβ. Alternatively, potential drugs may be selected by looking for those from a number of potential drugs with the greatest binding affinity.

Preferably the standard ligand in step (c) is T0901317, GW3965, or 24(S),25-epoxycholesterol.

The method may further comprise:

- (d) growing a supplemental crystal containing a protein ligand complex formed between the N-terminal truncated LXRβ and the potential drug, wherein the crystal effectively diffracts X-rays for the determination of the atomic coordinates of the protein-ligand complex to a resolution of greater than 5.0 Å;
- (e) determining the three-dimensional structure of the supplemental crystal with molecular replacement analysis;
- (f) selecting a candidate drug by performing a rational drug design with the three-dimensional structure determined for the supplemental crystal, wherein said selecting is performed in conjunction with computer modelling;
- (g) contacting a cell that expresses LXRβ; and
- (h) detecting a measure of protein synthesis in the cell; wherein a candidate drug is identified as a drug when it inhibits or enhances the expression of protein synthesis in the cell.

The method preferably comprises an initial step that precedes steps (a) wherein initial step consists of determining the three-dimensional structure of a crystal comprising a protein-ligand complex formed between an N-terminal truncated LXRβ and T0901317, GW3965, or 24(S),25-epoxycholesterol, wherein the crystal effectively diffracts X-rays for the determination of the atomic coordinates of the protein-ligand complex to a resolution of greater than 5.0 Å.

The invention also provides a method of using a crystal of the invention in a drug screening assay comprising:

- (a) selecting a potential ligand by performing rational drug design with the three-dimensional structure determined for the crystal, wherein said selecting is performed in conjunction with computer modelling;
- (b) adding the potential ligand to a cDNA or protein expression assay regulated by LXRβ;

detecting a measure of a cDNA or protein expression; wherein a potential (c) ligand that regulates the expression of protein expression is selected as a potential drug.

Such cDNA or protein expression assays are themselves known per se in the art. Preferably the assay is in vitro.

Computers for producing a 3D representation are also provided, the representation being of:

- a molecule or molecular complex, wherein said molecule or molecular (a) complex comprises a binding pocket defined by the structure coordinates of LXRB amino acid residues Ser242, Phe268, Phe271, Thr272, Leu274, Ala275, Ser278, Ile309, Met312, Leu313, Glu315, Thr316, Arg319, Ile327, Phe329, Leu330, Tyr335, Phe340, Leu345, Phe349, Ile350, Ile353, Phe354, His435, Gln438, Val439, Leu442, Leu449, Leu453, Trp457 according to the co-ordinate tables; or
- a homolog of said molecule or molecular complex, wherein said homolog (b) comprises a binding pocket that has a root mean square deviation from the backbone atoms of said amino acids of not more than 1.5 Å, wherein said computer comprises:
- a computer-readable data storage medium comprising a data storage (i) material encoded with computer-readable data, wherein said data comprises the structure of LXR\$\beta\$ amino acid residues Ser242, Phe268, Phe271, Thr272, Leu274, Ala275, Ser278, Ile309, Met312, Leu313, Glu315, Thr316, Arg319, Ile327, Phe329, Leu330, Tyr335, Phe340, Leu345, Phe349, Ile350, Ile353, Phe354, His435, Gln438, Val439, Leu442, Leu449, Leu453, Trp457 according to any one of the co-ordinate tables;
- (ii) a working memory of storing instructions for processing said computer-readable data:
- a central-processing unit coupled to said working memory and to (iii) said computer-readable data storage medium for processing and computer-machine

readable data into said three-dimensional representation; and

(iv) a display coupled to said central-processing unit for displaying said three-dimensional representation.

Preferably the computer produces a 3D representation of:

- (a) a molecule or molecular complex defined by structure coordinates of all of the LXR β ligand binding domain amino acid residues set forth in the co-ordinate tables; or
- (b) a homolog of said molecule or molecular complex, wherein said homolog comprises a binding pocket that has a root mean square deviation from the backbone atoms of said amino acids of not more than 1.5 Å; and wherein said computer readable data contains the coordinates of all of the LXRβ ligand binding domain amino acid residues as set forth in any one of the co-ordinate tables.

The invention also provides methods for determining the 3D structure of a complex between LXR β and a ligand, therefore, which comprises:

- (a) obtaining x-ray diffraction data for crystals of the complex; and
- (b) utilizing a set of atomic coordinates a portion thereof according to the invention; and coordinates having a root mean square deviation therefrom with respect to conserved protein backbone atoms of not more than 1.5Å to define the three-dimensional structure of the complex.

A still further aspect of the invention provides a method for determining a modelling structure of a protein containing LXR β or a complex of said protein and a ligand, which method comprises:

- (a) providing a three-dimensional structure defined by a set of coordinates or a portion thereof according to the invention; and coordinates having a root mean square deviation therefrom with respect to conserved protein backbone atoms of not more than 1.5Å;
- (b) generating a three-dimensional model structure of the protein containing LXR β using a homology modelling method and the structure of step (a) as a template; and
- (c) subjecting the resulting model to molecular mechanics energy minimization.

The term "rational drug design", as used herein, is defined as the designing of drugs for specific purposes, such as the binding to a predetermined receptor or the treatment of a predetermined disease. Examples include the designing of a drug to specifically bind and/or modulate nuclear hormone receptor binding, and the design of drugs to prevent or treat atherosclerosis. This is based upon the knowledge of molecular properties such as binding modes and interaction of the drug to its receptor as revealed by x-ray crystallography; the contribution of various functional groups contained in the drug to the affinity and specificity of the binding of the drug to its target; molecular geometry and electronic structure of drug and its target; and an information catalogued on analogous drug molecules. Such drug design is usually based on computed-assisted modelling and does not usually include pharmacokimetics, dosage analysis or drug administration analysis.

Computer modelling is the theoretical representation of data that simulates the behaviour or activity of systems, processes or phenomena. This includes the use of mathematical equations, computers and other electrical equipment. In the context of drug design, computer modelling allows the simulation of the strength of interaction between a drug conclictal and its target receptor.

Isolated proteins consisting essentially of the LBD of LXR β , vectors encoding such proteins and host cells are also provided. the isolated protein may be attached to a tag, such as a his-tag.

Drug candidates are potential drugs. That is, they include compounds which have initial indications that they will have potential clinical use or activity.

The term "supplemental crystal" refers to a second, additional, crystal complexed with a further, different LXR β ligand.

The term "standard ligand" refers to a known, characterised, ligand.

STRUCTURE BASED DESIGN OF LXR LIGANDS

The present invention elucidates the structure of the ligand-binding cavity of LXR β . Knowledge of the structure of this cavity has utility in the design of structurally novel LXR β ligands and in the design of non-obvious analogues of known LXR β ligands with improved properties. These enhanced properties include one or more of the following: (1) higher affinity, (2) improved selectivity for LXR β vs. related nuclear hormone receptors and/or (3) a designed degree of efficacy (agonism vs. partial agonism vs. antagonism). Without knowledge of the LXR β structure, modifications to produce ligands with enhanced properties and a reasonable likelihood of success would not be available to those skilled in the art. The LXR β structure also has utility in the discovery of new, structurally novel classes of LXR β ligands. Electronic screening of large, structurally diverse compound libraries such as the Available Chemical Directory (ACD) will identify new structural classes of LXR β ligands which will bind to the 3-dimensional structure of the LXR β . Additionally the LXR β structure allows for "reverse-engineering" or "de novo design" of compounds to bind to LXR β .

(1) Enhanced Affinity

The present invention has revealed the size and shape of the interior binding cavity for representative LXR β ligands T0901317 and GW-3965. The sizes and shapes of the cavities were delineated using the PASS program ("Fast Prediction and Visualization of Protein Binding Pockets With PASS"; G.P. Brady, Jr. and P.F.W. Stouten; J. Comp.-Aided Mol. Design, 14: 383-401, 2000). The interior binding cavity of LXR β /T0901317 complex is shown in **Figure 6** (left) and has the dimensions of 13.1 x 9.2 x 7.5 Å along the first, second, and third principle moments of inertia respectively. The interior binding cavity of LXR β /GW-3965 complex is shown in **Figure 6** (right) and has the dimensions of 17.0 x 11.9 x 8.0 Å along the first, second, and third principle moments of inertia respectively. In addition, this structure reveals a narrow "water-channel" adjacent to the cavity occupied by T0901317 and GW-3965.

Ligands which occupy as much of the interior binding cavities including the unoccupied "water-channels" as revealed by the LXRβ/T0901317 and LXRβ/GW-3965 complexes without sterically colliding with the receptor will provide ligands with higher affinity than either T0901317 or GW-3965.

The present invention has also revealed the presence of a histidine residue (His-435) which forms a very strong hydrogen bond with the acidic hydroxyl group of the ligand TO901317 [N ϵ – OC(CF₃)₂Ar) distance = 2.6 Å]. In addition, the sulfonyl oxygen atom of ligand TO901317 forms a weak hydrogen bond to the Ser-278 (O γ – O=S=O distance = 4.1 Å). New ligands which preserve the strong hydrogen bond by an appropriately placed acidic hydrogen atom to interact with the N ϵ atom of His-435 and in addition place a hydrogen bond donating group closer to the O γ atom of Ser-278 will show enhanced affinity for LXR β relative to TO901317.

The present invention also reveals that there are a number of unsatisfied hydrogen bond partners in the ligand binding cavity (see Figure 7). These include the backbone carbonyl group of Phe-271 and the sidechain Oγ atoms of Thr-272 and Thr-316. Introduction of appropriately positioned hydrogen bond donating substituents on the ligand which form strong hydrogen bonds to one or more of these three hydrogen bond accepting groups in the receptor binding cavity will serve to enhance affinity.

The ligands produced in accordance with the invention bind more effectively to the LXR β than TO901317. The ligand may bind with twice the binding affinity of TO901317, preferably three times the affinity, and most preferably ten or more times the affinity.

Preferably, the ligand produced in accordance with the invention occupies as much of the interior binding cavities of LXR β as revealed by the LXR β /T0901317 and LXR β /GW-3965 complexes without perturbing the remainder of the LXR β structure.

Preferably, the ligand produced in accordance with the invention also forms a hydrogen bond with the Ne atom of His-435 and at least one additional hydrogen bond to either

Phe-271 (backbone carbonyl group), Thr-272 (O γ), Ser-278 (O γ), or Thr-316 (O γ) of LXR β without perturbing the remainder of the LXR β structure.

(2) Improved Selectivity

The LXR\$\beta\$ receptor is very closely related to the LXR\$\alpha\$ and relatively closely related to the RXR, PXR, FXR, PPAR receptors. The RXR, PXR, FXR, PPAR receptors differ significantly in their primary sequence and slightly in their tertiary structure. As a consequence of these receptor differences, ligands may bind with different affinity to these four receptors.

The closest amino acid difference between LXR α and LXR β in the vicinity of the bound ligand is Ala-294(α)/Thr-308(β). This is in turn next to Met-298(α)/312(β) which directly lines the binding cavity. Rotation about the χ_3 sidechain of to Met-298(α) is more facile in LXR α than in LXR β due to the presence of the smaller Ala-294(α) residue. Therefore subsituents from the ligand which push on Met-298(α) will afford ligand that are selective for LXR α over LXR β .

Furthermore, a detailed understanding of the different receptors enables the different behaviour of a compound in different tissues to be understood, for example the selective liver X receptor modulators (SLXRMs) on the tissue in which it is active. LXR α and LXR β have different tissue distributions and therefore ligands which display LXR isoform binding selectivity will also display tissue selectivity.

The present invention provides new ligands which exploit these differences by positioning ligand substituents in close proximity to one or more amino acid residue that differ between LXR β and RXR, PXR, FXR, PPAR.

The ligands produced in accordance with the invention bind more effectively to the LXR β receptor than to the RXR, PXR, FXR, or PPAR receptor. The selectivity of the binding to the LXR β receptor may be tenfold, more preferably one hundred-fold, and most preferably greater than one thousand-fold.

(3) Modulation of Efficacy

This invention provides an understanding of the differences between LXRB agonist and antagonist binding and therefore a means to design LXRB ligands with the desired degree of efficacy. An examination of the differences between the ERa/estradiol (agonist; PDB accession code: 1ERE) and ERβ/raloxifene (agonist; PDB accession code: 1ERR) complexes reveals a large movement in Helix-12. H12 adopts an "agonistic" conformation defined by the structure of the ERa/estradiol complex and an "antagonistic" conformation defined by the structure of the ERB/raloxifene complex. These two conformations are in thermodynamic equilibrium. When the ER is complexed with a full agonist, such as estradiol, the equilibrium lies far in the direction of the "agonistic" conformation. In contrast, while when complexed with an antagonist, the equilibrium is pushed in the direction of the "antagonistic" conformation. In the case of raloxifene ER ligand, the bulky side-chain collides with H12 in its agonistic conformation, thereby driving the equilibrium in the antagonistic direction. By introduction of progressively shorter side chains in raloxifene, the equilibrium will be gradually shifted back towards the agonist conformation. By analogy, replacement of one of the fluorine atoms of the hexafluoroisopropanol group of TO901317 will sterically collide with H12 in LXR8. Thus, this invention provides a means of developing ligands with the desired degree of efficacy (agonist, partial agonist, or antagonist).

In particular, the importance of H12 has been determined as playing a central role in determining the efficacy (agonism vs. antagonism) of a ligand. Thus, ligands which are able to bind to and/or alter the conformation of H12 are of particular importance when designing a ligand or assessing the binding of a ligand, for the LXRβ receptor.

Additionally, it has been found that at least the majority of such receptor proteins when activated by binding to an agonist ligand are in the form a dimer (Khorasanizadeh S, Rastinejad F. 2001). Such dimerization leads to a potential route for disruption.

Disruptions of this type can be used to predict antagonism or to produce antagonists.

Disruptions may take the form of ligand binding which alters the conformation of the

helices that comprise the dimerization interface or direct binding to the dimerization interface which then inhibits dimerization.

Further, the orientation of the ligand may be keyed to the receptor, in the dimeric or monomeric form. Furthermore, using the crystals of the present invention, the influence of ligand binding to the LDB on the receptor conformation can now be shown to have influences on the behaviour of the receptor since it may disrupt the binding of co-activator, co-repressor, or heat-shock proteins. Previously, such predictions could not me made.

PRODUCTION OF LIVER X RECEPTOR β CRYSTALS AND THEIR APPLICATION

The present inventors have been able to isolate, differentiate and produce crystals for the liver \boldsymbol{X} receptor $\boldsymbol{\beta}$.

The crystal may be produced from a sequence comprising at least 250 amino acids, and preferably at least 200 amino acids of LXR β . More preferably, the sequence comprises at least a portion of the ligand-binding domain of LXR β . Alternatively, the sequence comprises the whole ligand-binding domain of LXR β .

Advantageously, the crystals have a resolution determined by X-ray crystallography of less than 3.6 Å and most preferably less than 2.9 Å.

The production of such crystals has enabled the three dimensional structure of the ligand binding domain of LXR β to be mapped. Use of such crystals in conjunction with the map enables a better understanding of how T0901317, GW3965 and other ligands bind to LXR β with precision. This technique can also enable the design of receptor selective LXR β agonists and antagonists since now the precise differences in the binding sites between LXR β and the closely related LXR α .

Crystals of the LXR\$\beta\$ ligand-binding domain can be used as models in methods for the design of synthetic compounds intended to bind to the receptor. Such models show why very slight differences in chemical moieties of a ligand potentially have widely varying

binding affinities. Hence, the three dimensional structure of the ligand binding domain can be used as a pharmaceutical model for compounds which bind to Liver X receptors.

Embodiments of the invention will now be described in more detail, by way of example, with reference to the accompanying drawing.

FIGURE LEGENDS

Figure 1. Cartoon view of the LXR β receptor with labeled helices.

Figure 2 shows representative portions of a 2.4Å resolution SigmaA weighted 2 Fobs-Fcalc map where Fobs are the observed and Fcalc are the calculated structure-factor amplitutes and 2Fobs-Fcalc is the difference Fourier synthesis electron density map in which model error is reduced and electron density at the chosen contour (mesh diagram) approximates the molecular surface for the LXRβ/GW3965 complex. The structure of GW3965 (tube diagram) is fitted to the experimental electron density (mesh diagram).

Figure 3. Superposition of the LXRβ/T0901317 (carbons black) and the LXRβ/GW3965 (carbons light grey) complexes reveal dramatic changes in the ligand-binding pocket.

Figure 4. Residues that are within hydrogen bond distance or van der Waals (4.2 Å) distance to the ligand are labeled. Dashed lines indicate hydrogen bonds and lines indicate Van der Waals interactions. These interactions are shown in (a) for the LXRβ/T0901317 complex, and in (b) for the LXRβ/GW3965.

Figure 5(a). Full length natural sequence of human LXRβ.

Figure 5(b). The crystallized protein sequence with the first four non-LXR β residues gshm and the remaining 213-416 originating from human LXR β .

Figure 6. Interior binding cavity of the LXR β /T0901317 complex (left) and LXR β /GW-3965 (right). The C α -trace of the protein is represented by solid line. The structure of the ligand T0901317 and GW-3965 ligands are represented by a ball-and-stick diagram. The binding cavity is represented by a transparent surface which is filled by PASS probe spheres (dots).

Figure 7. Unsatisfied hydrogen bonding partners (backbone carbonyl groups of Phe-266, Phe-271, Met-312 and side-chain hydroxyl groups of Thr-272, Thr-316) as revealed by the LXRβ/T0901317 complex. Structure of T0901317 is represented by a capped sticks figure surrounded by the interior binding cavity of the receptor (transparent surface). Key amino acid residues are represented by labeled capped-stick. Hydrogen bonding accepting sites on the surface of the receptor binding cavity are represented by solid surfaces.

DNA construction work

The human LXRβ sequence is publicly available with accession number P55055 (SwissProt.) (Shinar, D.M. et al. (1994)). A construct spanning Gly213-Glu461 with the addition of an N-terminal 6xHis tag was used in the present work. The His-tag was designed to be cleavable using thrombin.

Protein production

The protein was expressed in *Escherichia coli* BL21 StarTM (DE3) cells (Invitrogen) using the pET28a expression system. Fermentation was carried out in batch culture (2xLB medium, 22°C) and expression of the recombinant protein was induced by the addition of 0.55mM IPTG (isopropyl-\beta-D-thiogalactoside) at OD₆₀₀=5.0. After 4h of induction the cells were harvested by centrifugation. The cell pellet was resuspended and washed once with buffer (20 mM HEPES pH 8.0, 100 mM KCl, 10% glycerol and 2.5 mM monothioglycerol). Final cell pellet was frozen at -70°C.

40g cells were lysed by glass beadbeater (BioSpec Products, Inc.) in extract buffer containing 50 mM Tris, pH8.8, 250 mM NaCl, 10% glycerol and 1 mM PMSF. Soluble

protein extract were collected by centrifugation at 11000 rpm, 20 min in Sorvall RC-5B centrifuge (Du Pont-instrument AB), GSA rotor.

Protein purification

Crude LXRβ was eluted from 25 ml Talon by 20 mM Tris, pH8.0, 100 mM imidazole. Further purification was achieved using anion-exchange chromatography (5 ml Hitrap Q FF ion exchange column, Amersham Bioscience), and applying a gradient from 0 to 250 mM NaCl, pH8.0, eluted LXRβ. After thrombin cleavage, the final LXRβ (6-7 mg) fraction was obtained by running 4% acryl amide native gel electrophoresis in Tris-Epps buffer system.

Protein quality analysis

To elucidate the homogeneity of LXRβ, throughout the purification samples were collected and run on SDS and native PAGE gels (Phast, Amersham Biosciences, Sweden). Reverse phase HPLC runs were performed on a Waters HPLC system (Waters, USA) at denaturing conditions. Typically, 100 ml sample was acidified by addition of 10% acidic acid (final concentration). A sample was injected and eluted in a 25-75% acetonitrile-water gradient in 0.1% triflouroacidic acid at 1 ml/min. The method proved to be very useful to reveal problems with ligand binding and LXRβ stability and for determine the concentration and LXRβ-ligand ratio.

Crystallization and data collection

Crystallization was carried out using the hanging drop vapour-diffusion technique. Both LXRβ-T0901317 and LXRβ-GW9365 crystals were grown from buffer containing 8.5% iso-propanol, 17% PEG 4000, 85 mM HEPES, pH7.5, and 15% Glycerol at room

temperature. The first LXRβ/T0901317 crystals formed in the P6122 space group, with a=b=58.7,c=293.8 and diffracted to better than 3 Å. In the same drops another crystal form

was later detected belonging to the P212121 space group. Before data collection, crystals were flash-frozen in the 100 K nitrogen gas stream of an Oxford cryostream700. Data was either collected with an MAR345 image plate detector using X-rays from a Rigaku H3R rotating anode generator + Osmic Confocal Max-Flux™ optics or with a ADSC Q4R CCD at Experimental Station ID14-4 at ESRF. The observed reflections where reduced, merged and scaled with MOSFLM, and Scala in the CCP4 package.

Structure determination and refinement

The structure was determined by molecular replacement methods with the CCP4 AmoRe program (Acta. Cryst. D50 (1994), pages 760-763), using an LXRβ homology model based on a thyroid hormone receptorβ structures (Protein Databank Accession Code 1NAX). A publicly available structure such as 1bsx.pdb, from the Protein Data Bank, could also have been used to create the model. The molecular replacement was done on the first 3 Å data of LXRβ/T0901317 crystallized in P6122 and revealed one monomer per asymmetric unit. The crystal packing along one of the 2-folds revealed that the protein formed a tight homodimer, which allowed us to use the homodimer to search the second crystal form P212121 that gave 2 homodimers in the asymmetric unit. Electron densities for the T0901317 ligand confirmed the solutions of the molecular replacement. Model building was done with O and refinement initially with CNX and later with the CCP4 Refmac program and manual rebuilding. The four monomer complexes where treated as single TLS groups in Refmac which gave more interpretable electron density maps and improved the R-factors substantially.

Table 1. Summary of data collection, processing and refinement.

Complex	LxRβ/T0901317	LxRβ/GW3965
Data collection		
Source	In house	ID14 EH4 ESRF
Space group	P212121	P212121
Unit cell parameters		
		·
a	58.7	58.7
b	103.3	98.9
c	176.0	175.8
Resolution	2.8 Å	2.4 (2.4-2.53)
	(2.8-2.95Å)	
Observations		
Unique	27153	37733
Total	92460	129438
Completeness (%)	99.9 (99.7)	98.5(95.4)
<i> / <σ(I)></i>	7.6 (1.9)	8.8(3.5)
Rsym %	8.4 (40.2)	5.0(21.8)
Refinement		
Rwork	19.5 (27.9)	20.7(21.8)
Rfree	26.2 (34.8)	26.3(29.6)
Number of atoms	7782	7673
R.m.s deviation		
Bonds (Å)	0.016	0.016
Angles (°)	1.49	1.36
Average B-factor	24.3	23.1
(\mathring{A}^2)		

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CO-ORDINATE TABLE 1

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REMARK ******* CONFIDENTIAL *******************
REMARK THESE ATOMIC COORDINATES AND/OR STRUCTURE FACTORS ARE PROPRIETARY
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REMARK
        SOURCE OUTSIDE OF KARO BIO WITHOUT AUTHORIZATION.
REMARK
REMARK
          HUMAN LXR BETA HORMONE RECEPTOR COMPLEXED WITH
TITLE
         2 KB008444/T0901317 COMPLEX
TITLE
REMARK
REMARK
       ATOMIC COORDINATES OF A CRYSTAL STRUCTURE
REMARK
        DEPOSITOR: MATHIAS FARNEGARDH (MATHIAS.FARNEGARDH@KAROBIO.SE)
REMARK
REMARK
        DEPOSITION DATE 5-SEP-2002
REMARK
        THE ATOMIC COORDINATES AND/OR STRUCTURE FACTORS IN THIS FILE ARE THE
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REMARK
        EXPERIMENTAL RESULTS OF:
REMARK
REMARK
       MATHIAS FARNEGARDH, KARO BIO AB
REMARK
        NOVUM, 141 57 HUDDINGE, SWEDEN
REMARK
REMARK IMPORTANT NOTE ##############
       THIS DATA WAS COLLECTED RAPIDLY ON AN HOME SOURCE (RIGAKU RU300)
REMARK
        TO DECREASE THE AMOUNT OF LIGAND SPLITTING THE RESOLUTION IS DUE TO
REMARK
REMARK
       THIS ONLY 2.9 A. IN ORDER TO TAKE ADVANTAGE OF THE HIGH RESOLUTION
       STRUCTURE OF THIS COMPLEX (WHERE THE LIGAND IS SPLIT BY XRAY RADIATION)
REMARK
        WAS THE HIGH RESOLUTION STRUCTURE lxrb_KB008444_split.pdb USED AS THE
REMARK
REMARK
        STARTING MODEL FOR THIS REFINEMENT INCLUDING ALL THE WATERS.
        THE DIFFERENCES BETWEEN THE TWO STRUCTURES ARE ONLY LOCATED AT THE N-S
REAMRK
REMARK
        SPLITTING POINT OF THE LIGAND.
REMARK
        THIS ENTRY CONTAINS THE COMPLETE CONTENT OF THE ASYMETRIC UNIT
REMARK
REMARK
        THAT COULD BE BUILT INTO INTERPRETABLE ELECTRON DENSITIES
REMARK
       IT CONTAINS 4 INDEPENDENTLY REFINED PROTEIN MONOMERS
        CHAIN A 220-253, 261-458
REMARK
REMARK
       A500 IS THE LIGAND
       CHAIN B 219-258, 261-458 (GLN219, LEU330 MODELLED AS ALA)
REMARK
       B500 IS THE LIGAND
REMARK
       CHAIN C 220-243, 248-254, 259-458
REMARK
        C500 IS THE LIGAND
REMARK
        CHAIN D 220-242, 249-252, 260-329, 333-443, 448-458
REMARK
REMARK
        (PHE329 MODELLED AS ALA) D500 IS THE LIGAND
REMARK
        THE PROTEIN CRYSTALLIZED CONTAIN RESIDUES 213-461, THE GAPS IN THE
REMARK
        STRUCTURE ARE DUE TO UNINTERPRETABLE ELECTRONDENSITIES IN THESE
REMARK
        PARTICULAR REGIONS
HEADER
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                                                 05-SEP-02
                                                             XXXX
COMPND
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        2 MOLECULE: LIVER X RECEPTOR BETA;
COMPND
COMPND
        3 CHAIN: A, B, C, D;
COMPND
         4 FRAGMENT: LIGAND BINDING DOMAIN;
COMPND
        5 SYNONYM: LXRB;
REMARK
         3
REMARK
         3 REFINEMENT.
        3.
REMARK
            PROGRAM
                        : REFMAC 5.1.19
REMARK
        3
            AUTHORS
                        : MURSHUDOV, VAGIN, DODSON
REMARK
        3
REMARK
         3
             REFINEMENT TARGET : MAXIMUM LIKELIHOOD
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 REMARK
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RESOLUTION RANGE LOW (ANGSTROMS): 40.00
DATA CUTOFF (SIGMA(F)): NONE
COMPLETENESS FOR RANGE (%): 99.91
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 REMARK
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 REMARK
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                NUMBER OF REFLECTIONS
                                                              25718
 REMARK
 REMARK
            3 FIT TO DATA USED IN REFINEMENT.
                CROSS-VALIDATION METHOD
                                                         : THROUGHOUT
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 REMARK
            3
 REMARK
            3
                R VALUE
                                       (WORKING SET) : 0.19526
                FREE R VALUE
 REMARK
            3
                                                         : 0.26170
                 FREE R VALUE TEST SET SIZE (%): 5.1
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                 FREE R VALUE TEST SET COUNT
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                                                        : 1381
 REMARK
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 REMARK
               FIT IN THE HIGHEST RESOLUTION BIN.
            3
               TOTAL NUMBER OF BINS USED
 REMARK
                                                                     20
                BIN RESOLUTION RANGE HIGH
 REMARK
                                                                  2.800
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            3
                BIN RESOLUTION RANGE LOW
                                                                  2.872
 REMARK
            3
                REFLECTION IN BIN (WORKING SET) :
                                                                   1831
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                                           (WORKING SET) :
                                                                  0.279
                BIN FREE R VALUE SET COUNT
 REMARK
            3
                                                    · :
                                                                   100
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                                             :
                                                     7782
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 REMARK
            3
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                FROM WILSON PLOT
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            3
 REMARK
           3
                OVERALL ANISOTROPIC B VALUE.
                B11 (A**2) : 0.01
 REMARK
 REMARK
                B22 (A**2) :
           3
                                      1.29
 REMARK
                B33 (A**2) :
B12 (A**2) :
B13 (A**2) :
B23 (A**2)
                B33 (A**2) :
           3
                                    -1.30
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                                     0.00
                 B23 (A**2) :
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                                     0.00
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               ESTIMATED OVERALL COORDINATE ERROR.
                ESU BASED ON R VALUE
REMARK
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REMARK
                ESU BASED ON FREE R VALUE
           3
                                                                           (A): 0.410
REMARK
           3
                ESU BASED ON MAXIMUM LIKELIHOOD
                                                                           (A):
                ESU FOR B VALUES BASED ON MAXIMUM LIKELIHOOD (A**2): 15.914
REMARK
REMARK
           3
REMARK
           3 CORRELATION COEFFICIENTS.
                CORRELATION COEFFICIENT FO-FC
REMARK
           3
                CORRELATION COEFFICIENT FO-FC FREE:
REMARK
           3
REMARK
               RMS DEVIATIONS FROM IDEAL VALUES
           3
                                                              COUNT
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REMARK
           3
               BOND LENGTHS REFINED ATOMS
                                                (A): 7745; 0.016; 0.022
(A): 7177; 0.002; 0.020
(DEGREES): 10502; 1.490; 1.980
                BOND LENGTHS OTHERS
REMARK
           3
REMARK
                BOND ANGLES REFINED ATOMS
REMARK
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                                                (DEGREES): 16631 ; 0.842 ; 3.000
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REMARK
REMARK
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           3
               GENERAL PLANES OTHERS
(A): 1612; 0.002; 0.020
NON-BONDED CONTACTS REFINED ATOMS (A): 1833; 0.215; 0.200
NON-BONDED CONTACTS OTHERS
(A): 8222; 0.224; 0.200
REMARK
REMARK
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NON-BONDED TORSION OTHERS (A): 4710 ; 0.088 ; 0.200 H-BOND (X...Y) REFINED ATOMS (A): 208 ; 0.180 ; 0.200
REMARK
REMARK
          3
                                                (A): 20; 0.205; 0.200
(A): 81; 0.243; 0.200
(A): 11; 0.126; 0.200
              SYMMETRY VDW REFINED ATOMS
REMARK
          3
REMARK
              SYMMETRY VDW OTHERS
REMARK
              SYMMETRY H-BOND REFINED ATOMS
REMARK
          3
          3 ISOTROPIC THERMAL FACTOR RESTRAINTS.
                                                       COUNT
REMARK
                                                              RMS
                                                                       WEIGHT
            MAIN-CHAIN BOND REFINED ATOMS (A**2): 4613; 0.581; 1.500
REMARK
              MAIN-CHAIN ANGLE REFINED ATOMS (A**2): 7458; 1.145; 2.000
REMARK
              SIDE-CHAIN BOND REFINED ATOMS (A**2): 3132; 1.659; 3.000
REMARK
          3
REMARK
              SIDE-CHAIN ANGLE REFINED ATOMS (A**2): 3044; 3.050; 4.500
          3
REMARK
          3
REMARK
             NCS RESTRAINTS STATISTICS
              NUMBER OF NCS GROUPS : NULL
REMARK
          3
REMARK
          3
REMARK
          3
REMARK
          3 TLS DETAILS
              NUMBER OF TLS GROUPS : NULL
REMARK
          3
REMARK
          3
REMARK
          3
          3 BULK SOLVENT MODELLING.
REMARK
REMARK
          3
              METHOD USED: BABINET MODEL WITH MASK
              PARAMETERS FOR MASK CALCULATION
REMARK
          3
REMARK
          3
              VDW PROBE RADIUS : 1.40
REMARK
          3 ION PROBE RADIUS
                                 :
                                      0.80
              SHRINKAGE RADIUS
REMARK
          3
                                      0.80
REMARK
REMARK
          3
          3 OTHER REFINEMENT REMARKS:
3 HYDROGENS HAVE BEEN ADDED IN THE RIDING POSITIONS
          3
                  PRO A 253
                                                 ALA A 261
LINK
                                                                            gap
                 PRO B 258
                                                 ALA B 261
LINK
                                                                            gap
                 PHE C 243
                                                 LYS C 248
LINK
                                                                            gap
                                                  GLN C 259
                ALA C 254
LINK
                SER D 242
 LINK
                                                  VAL D 249
LINK
LINK
LINK
                  TRP D 252
                                                  ALA D 260
                                                                            gap
                  ALA D 329
                                                  PHE D 333
                                                                            gap
                                                 LYS D 448
                  ARG D 443
                                                                            gap
 CRYST1 58.722 103.262 176.002 90.00 90.00 90.00 P 21 21 21
         0.017029 0.000000 0.000000 0.000000
0.000000 0.009684 0.000000 0.00000
0.000000 0.000000 0.005682 0.00000
 SCALE1
SCALE2
                                                                                 N
                                                                                 C
                                                                                 C
                                                                                 C
                                                                                 C
                                                                                 C
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ATOM	45	O ALA A 222	-2.431	9.165	62.664	1 00 55 5
ATOM	46		-1.010	9.854	64.251	
ATOM	48	CA ALA A 223	-1.606	11.168	64.251	
MOTA	50	CB ALA A 223	-1.026	11.901		
ATOM	54		-1.397	11.968	65.538	
ATOM	55	O ALA A 223	-2.247	12.750	63.046	
ATOM	56		-0.264		62.660	
ATOM	58		-0.005	11.767	62.381	
ATOM	60			12.423	61.108	
ATOM	63		1.479	12.350	60.734	1.00 16.24
ATOM	66	CD GLN A 224	2.383	13.329	61.487	1.00 15.36
ATOM	67	OE1 GLN A 224	3.857	13.076	61.233	1.00 13.69
ATOM	68	NE2 GLN A 224	4.276	11.933	61.080	1.00 11.58
ATOM	71	C GLN A 224	4.642	14.144	61.171	1.00 12.35
ATOM	72	O GLN A 224	-0.856 -1.344	11.847	59.987	1.00 16.83
ATOM	73	N GLU A 225	-1.344	12.586	59.155	1.00 17.50
ATOM	75	CA GLU A 225		10.541	59.944	1.00 17.54
ATOM	77	CB GLU A 225	-1.918 -1.919	9.962	58.938	1.00 18.71
MOTA	80	CG GLU A 225	-0.583	8.421	58.996	1.00 19.80
ATOM	83	CD GLU A 225		7.718		1.00 22.22
ATOM	84	OE1 GLU A 225	-0.739	6.189	58.646	1.00 27.82
ATOM	85	OE2 GLU A 225	-1.896	5.694	58.806	1.00 29.83
ATOM	86	C GLU A 225	0.279	5.463	58.427	1.00 29.75
ATOM	87	O GLU A 225	-3.326	10.487	59.160	1.00 18.57
ATOM	88	N LEU A 226	-3.972	10.912	58.236	1.00 18.55
ATOM	90	CA LEU A 226	-3.788	10.489	60.401	1.00 19.06
ATOM	92	CB LEU A 226	-5.087	11.076	60.747	1.00 19.53
ATOM	95	CG LEU A 226	-5.351	11.028	62.260	1.00 19.76
ATOM	97	CD1 LEU A 226	-6.612	11.759	62.761	1.00 19.44
ATOM	101	CD2 LEU A 226	-7.866	11.109	62.149	1.00 20.78
ATOM	105	C LEU A 226	-6.676	11.739	64.269	1.00 18.94
ATOM	106	O LEU A 226	-5.283	12.516	60.326	1.00 19.84
ATOM	107	N MET A 227	-6.391	12.892	59.964	1.00 20.69
ATOM	109	CA MET A 227	-4.260 -4.449	13.348	60.435	1.00 20.12
ATOM	111	CB MET A 227	~4.448	14.759	60.126	1.00 20.67
ATOM	114	CG MET A 227	-3.305 -2.751	15.603	60.675	1.00 21.19
ATOM	117	SD MET A 227		16.682	59.708	1.00 23.98
ATOM	118	CE MET A 227	-1.252 -1.757	17.480	60.399	1.00 30.33
ATOM	122	C MET A 227	-4.578	17.793	62.100	1.00 29.41
ATOM	123	O MET A 227	-5.464	14.927	58.616	1.00 20.11
ATOM	124	N ILE A 228	-3.705	15.629	58.148	1.00 20.30
ATOM	126	CA ILE A 228	-3.665	14.257 14.351	57.878	1.00 19.29
ATOM	128	CB ILE A 228	-2.382	13.726	56.445	1.00 19.09
ATOM	130	CG1 ILE A 228	-1.179	14.615	55.921	1.00 19.07
ATOM	133	CD1 ILE A 228	0.158	13.963	56.251	1.00 19.28
ATOM	137	CG2 ILE A 228	-2.494	13.479	55.932	1.00 19.23
ATOM	141	C ILE A 228	-4.863	13.479	54.411	1.00 19.58
MOTA	142	O ILE A 228	-5.418	14.211	55.794	1.00 19.43
ATOM	143	N GLN A 229	-5.256	12.477	54.868	1.00 20.34
ATOM	145	CA GLN A 229	-6.478	11.882	56.223	1.00 18.90
ATOM	147	CB GLN A 229	-6.771	10.577	55.706	1.00 18.96
ATOM	150	CG GLN A 229	-6.067	9.435	56.413	1.00 19.24
ATOM	153	CD GLN A 229	-6.010	8.229	55.768	1.00 21.27
ATOM	154	OE1 GLN A 229	-6.948	7.971	56.651	1.00 24.10
ATOM	155	NE2 GLN A 229	-4.905	7.479	57.423	1.00 25.47
ATOM	158	C GLN A 229	-7.702	12.769	56.560	1.00 25.45
ATOM	159	O GLN A 229	-8.583	12.732	55.845	1.00 18.55
ATOM	160	N GLN A 230	-7.744	13.532	55.011	1.00 18.22
ATOM	162	CA GLN A 230	-8.860	14.389	56.930	1.00 18.60
ATOM	164	CB GLN A 230	-8.659	14.919	57.301	1.00 18.80
ATOM	167	CG GLN A 230	-9.251	16.327	58.749 59.108	1.00 19.79
					29.100	1.00 21.29

ATOM	170	CD	GLN	A	230	-10.690	16.230	59.571	1.00	24.64		С
ATOM	171	OE1	GLN	Α	230	-11.138	15.164	59.996	1 00	25.60		ō
ATOM	172		GLN			-11.427	17.336	59.477		28.35		N
MOTA	175	С	GLN	A	230	-8.945	15.538	56.342	1.00	18.30		С
MOTA	176	0	GLN	Α	230	-10.029	15.844	55.865		18.40		
												0
ATOM	177	N	LEU			-7.800	16.196	56.106		17.65		N
MOTA	179	ÇA	LEU	Α	231	-7.691	17.326	55.185	1.00	17.02		С
ATOM	181	CB	LEU	Δ	231	-6.276	17.900	55.178		17.01		
												С
ATOM	184	CG	LEU			-5.827	18.554	56.489		17.61		С
ATOM	186	CD1	LEU	Α	231	-4.435	19.164	56.398	1.00	17.30		С
ATOM	190	CD2	LEU	Ά	231	-6.815	19.591	56.908		18.68		Ċ
						-8.079						_
ATOM	194	С	LEU				16.910	53.787		16.54		С
ATOM	195	0	LEU	A	231	-8.848	17.571	53.144	1.00	16.65		0
ATOM	196	N	VAL	Α	232	-7.589	15.776	53.337		16.28		N
ATOM	198	CA	VAL			-7.975						
							15.264	52.034		16.26		С
ATOM	200	CB	VAL	A	232	-7.091	14.080	51.598	1.00	16.22		С
ATOM	202	CG1	VAL	Α	232	-7.585	13.491	50.281	1.00	15.39		С
ATOM	206		VAL			-5.639		51.447				Š
										16.49	•	С
ATOM	210	С	VAL			-9.463		51.955	1.00	15.99		С
ATOM	211	0	VAL	Α	232	-10.106	15.228	50.942	1.00	15.95		0
ATOM	212	N	ALA			-10.010	14.319	53.006		15.67		N
ATOM	214	CA	ALA			-11.416		53.011		15.76		С
MOTA	216	CB	ALA	Α	233	-11.722	13.041	54.167	1.00	15.74		С
ATOM	220	С	ALA	Α	233	-12.328		53.046	1.00	16.33		Ċ
ATOM	221	Ö	ALA			-13.417						
								52.468		15.95		0
ATOM	222	N	ALA	A	234	-11.893		53.720	1.00	16.96		N
ATOM	224	CA	ALA	Α	234	-12.667	17.465	53.756	1.00	17.94		С
ATOM	226	CB	ALA			-12.205	18.373	54.910		18.20		Š
												С
ATOM	230	С	ALA			-12.598	18.207	52.407	1.00	18.44		С
ATOM	231	0	ALA	Α	234	-13.595	18.714	51.965	1.00	18.63		0
ATOM	232	N	GLN	Δ	235	-11.438	18.261	51.762		19.00		N
												IN.
ATOM	234	CA	GLN			-11.303		50.425		20.04		С
ATOM	236	CB	GLN	A	235	-9.856	18.674	49.997	1.00	20.79		С
ATOM	239	CG	GLN	Α	235	-9.379	19.327	48.715	1.00	24.06		С
ATOM	242	CD	GLN			-7.796		48.697		30.93		~
												С
MOTA	243	OE1				-7.021	18.452	48.747	1.00	31.11		0
ATOM	244	NE2	GLN	Α	235	-7.336	20.724	48.634	1.00	34.09		N
ATOM	247	С	GLN	А	235	-12.213	18.115	49.435		19.95		Ċ
ATOM	248	_										
		0	GLN			-12.927	18.720	48.655		19.27		0
MOTA	249	N	LEU	Α	236	-12.199	16.800	49.490	1.00	20.56		N
MOTA	251	CA	LEU	Α	236	-13.036	16.017	48.616	1.00	21.32		С
ATOM	253	CB	LEU			-12.757	14.522	48.786		21.67		č
												С
MOTA	256	CG	LEU			-13.341	13.700	47.626	1.00	24.13		С
ATOM	258	CD1	LEU	Α	236	-12.335	13.718	46.450	1.00	25.57		С
ATOM	262	CD2	LEU	Α	236	-13.777	12.237	48.015		25.18		Ċ
ATOM	266	C	LEU			-14.518	16.309					
								48.845		21.68		С
ATOM	267	0	LEU			-15.252	16.390	47.872	1.00	22.07		0
ATOM	268	N	GLN	Α	237	-14.958	16.451	50.105	1.00	21.96		N
ATOM	270	CA	GLN			-16.373	16.687	50.431		22.24		
ATOM	272											C
		СВ	GLN			-16.683	16.470	51.923		22.91		C
ATOM	275	CG	GLN	A	237	-16.664	14.997	52.379	1.00	26.71		С
ATOM	278	CD	GLN			~16.470	14.773	53.913		30.99		Č
ATOM	279	OE1	GLN			-16.674						
							13.640	54.381		33.33		0
MOTA	280	NE2	GLN			-16.075	15.829	54.678	1.00	31.61		N
MOTA	283	C	GLN	Α	237	-16.746	18.097	50.095	1.00	21.57		С
MOTA	284	0	GLN			-17.875	18.381	49.779		21.64		
												0
ATOM	285	N	CYS			-15.803	19.001	50.189		21.37		N
MOTA	287	CA	CYS	Α	238	-16.106	20.382	49.933	1.00	21.90		С
ATOM	289	CB	CYS			-14.933	21.268	50.319		22.20		c
ATOM	292	SG	CYS			-15.030	21.765	52.027		21.86		
	293											S
ATOM	293	С	CYS	A	45 8	-16.385	20.508	48.468	T.00	22.29		C
					· · · · · · · · · · · · · · · · · · ·			·		 		

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ATOM	294	-	CYS	S A 238		-17.28	8 21.22	1 40 050	
ATOM	295		ASI	I A 239		-15.59	0 19.792		- 1 0 0 LI 1 3 0
ATOM ATOM	297		ASN	A 239		-15.69	1 19.869		
ATOM	299 302		ASN	N A 239		-14.46	3 19.232	2 45.582	
ATOM	303			I A 239	•	-14.28			1.00 25.70
ATOM	304			A 239 A 239		-14.63			1.00 27.70
ATOM	307		ASN	A 239		-13.789 -17.009			1.00 27.04
ATOM	308		ASN	A 239		~17.70	9 19.263 3 19.853		
ATOM	309		LYS	A 240		-17.36	18.107	3 44.986 7 46.354	
ATOM	311		LYS	A 240		-18.609	17.421		
ATOM ATOM	313		LYS	A 240		-18.719	16.127	46.843	
ATOM	316 319		LYS	A 240 A 240		-19.950		46.541	1.00 24.05
ATOM	322		LYS	A 240		-19.746			1.00 25.71
ATOM	325		LYS	A 240		-20.932 -21.540			1.00 26.90
ATOM	329	C	LYS	A 240		-19.799			
ATOM	330	-	LYS	A 240		-20.731	18.394		
ATOM	331		ARG	A 241		-19.740	18.962		1.00 23.66 1.00 24.06
ATOM ATOM	333	-	ARG	A 241		-20.796	19.842		1.00 24.05
ATOM	335 338	CB CG	ARG	A 241		-20.450	20.278	49.431	1.00 24.96
ATOM	341	CD	ARG	A 241 A 241		-21.613			1.00 25.97
ATOM.	344	NE	ARG	A 241		-21.267 -22.165			1.00 27.73
ATOM	346	CZ	ARG	A 241		-23.486	22.017 21.893		1.00 28.90
ATOM	347	NHI	L ARG	A 241		-24.108	20.712	52.299 52.181	1.00 30.39
ATOM	350	NH2	2 ARG	A 241		-24.200	22.966	52.626	1.00 29.33 1.00 32.01
ATOM ATOM	353 354	С 0	ARG	A 241		-20.977	21.097	47.158	1.00 24.33
ATOM	355	N	ARG	A 241 A 242		-22.088	21.443	46.784	1.00 23.85
ATOM	357	CA		A 242		-19.870	21.774	46.881	1.00 24.71
ATOM	359	СВ	SER	A 242		-19.893 -18.654	23.054 23.864	46.200	1.00 25.36
ATOM	362	OG	SER	A 242		-18.673	24.276	46.556 47.912	1.00 25.33
MOTA	364	C		A 242		-19.996	22.949	44.688	1.00 26.26 1.00 26.01
ATOM ATOM	365 366	O N	SER	A 242		-20.468	23.892	44.059	1.00 26.36
ATOM	368	N CA	PHE	A 243 A 243		-19.577	21.818	44.109	1.00 26.84
ATOM	370	CB	PHE	A 243		-19.363 -17.893	21.702	42.654	1.00 27.40
MOTA	373	CG	PHE	A 243		-17.476	21.962 23.401	42.281	1.00 27.57
ATOM	374	CD1	PHE	A 243		-16.406	23.768	42.388 43.192	1.00 28.48
ATOM	376	CE1		A 243		-16.017	25.108	43.293	1.00 30.26 1.00 31.11
ATOM ATOM	378 380	CZ	PHE	A 243		-16.693	26.079	42.573	1.00 32.32
ATOM	382	CES	PHE	A 243 A 243		-17.761	25.717	41.751	1.00 30.72
ATOM	384	C	PHE	A 243 A 243		-18.138	24.386	41.669	1.00 30.00
MOTA	385	Ö	PHE	A 243		-19.744 -19.065	20.350	42.078	1.00 27.70
ATOM	386	N	SER	A 244		-20.810	19.865 19.740	41.173 42.593	1.00 28.04
ATOM	388	CA		A 244		-21.388	18.561	41.956	1.00 27.94 1.00 27.89
ATOM ATOM	390	CB		A 244		-22.038	17.617	42.969	1.00 27.89
ATOM	393 395	OG C		A 244		-21.132	16.641	43.439	1.00 27.71
ATOM	396	õ	SER .	A 244 A 244		-22.440	19.069	41.004	1.00 28.11
ATOM	397	Ň	ASP I	A 245		-22.398 -23.390	18.799	39.810	1.00 28.08
ATOM	399	CA	ASP 2	A 245		-24.489	19.814 20.374	41.554	1.00 28.48
ATOM	401	CB	ASP Z	A 245		-25.670	20.374	40.772 41.695	1.00 28.58
ATOM ATOM	404	CG	ASP A	A 245		-26.367	19.446	42.218	1.00 28.69 1.00 29.20
ATOM ATOM	405 406	OD1	ASP A	A 245		-27.256	18.917	41.510	1.00 29.20
ATOM	406	OD2 C	ASP A	A 245		-26.089	18.909	43.312	1.00 29.52
ATOM	408	Ö	ASP A	A 245		-24.038	21.605	39.973	1.00 28.43
ATOM	409	N	GLN A	A 246		-22.985 -24.833	22.187 21.973	40.235	1.00 28.14
						24.033	21.3/3	38.976	1.00 28.73

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ATOM	411	CA	GLN	А	246	-24.511	23.105	38.107	1.00 2	8.73	С
ATOM	413	CB	GLN			-25.515	23.249	36.951	1.00 2		č
ATOM	416	CG	GLN			-25.610	22.033	36.023	1.00 2		č
ATOM	419	CD	GLN			-24.579	22.068	34.924	1.00 2		· č
ATOM	420		GLN			-24.870	22.489	33.813	1.00 2		Ö
ATOM	421	NE2	GLN			-23.371	21.640	35.231	1.00 2		N
						-24.553	24.338		1.00 2		
ATOM	424	C	GLN					38.970			C
ATOM	425	0	GLN			-25.427	24.478	39.811	1.00 2		0
ATOM	426	И	PRO			-23.599	25.231	38.798	1.00 2		N
MOTA	427	CA	PRO			-23.559	26.416	39.647	1.00 2		C
MOTA	429	CB	PRO			-22.168	27.006	39.357	1.00 2		Ç
ATOM	432	CG	PRO			-21.788	26.494	37.996		9.30	С
ATOM	435	CD	PRO			-22.499	25.198	37.818	1.00 2		· C
ATOM	438	С	PRO			-24.706	27.351	39.273	1.00 2		C
MOTA	439	0	PRO			-25.155	27.321	38.121	1.00 3		0
ATOM	440	N	LYS	Α	248	-25.215	28.119	40.234	1.00 3		N
ATOM	442	CA	LYS	Α	248	-26.221	29.139	39.937	1.00 3	0.26	С
MOTA	444	CB	LYS	A	248	-27.101	29.417	41.162	1.00 3	0.54	С
ATOM	447	CG	LYS	A	248	-27.941	28.210	41.639	1.00 3	1.56	С
ATOM	450	CD	LYS			-29.123	28.610	42.571	1.00 3		, C
ATOM	453	CE	LYS			-30.244	27.556	42.530	1.00 3	3.52	c
ATOM	456	NZ	LYS			-31.375	27.849	43.451	1.00 3		· N
MOTA	460	C	LYS			-25.450	30.386	39.495		0.08	Ċ
ATOM	461	ŏ	LYS			-24.799	31.051	40.310	1.00 3		Ö
ATOM	462	N	VAL			-25.448	30.660	38.193	1.00 2		И
ATOM	464	CA	VAL			-24.593	31.712	37.651	1.00 2		Ĉ
ATOM	466	CB	VAL			-23.202	31.196	37.179	1.00 2		C
ATOM	468		VAL			-22.100	32.141	37.639	1.00 3		č
ATOM	472		VAL			-22.892	29.825	37.697	1.00 2		C
	476	C	VAL			-25.223	32.380	36.464	1.00 2		C
MOTA			VAL			-25.831	31.723	35.622	1.00 2		C
ATOM	477	0									0
ATOM	478	N			250	-25.075	33.699	36.407	1.00 2		N
ATOM	480	CA	THR			-25.410	34.463	35.222	1.00 2		C
ATOM	482	CB	THR			-24.740	35.840	35.274	1.00 2		C
MOTA	484	OG1	THR			-25.260	36.595	36.371	1.00 2		0
ATOM	486	CG2	THR			-25.106	36.681	34.074	1.00 2		C
ATOM	490	C			250	-24.870	33.663	34.057	1.00 2		С
ATOM	491	0			250	-23.683	33.365	34.035	1.00 2		0
ATOM	492	N			251	-25.737	33.270	33.121	1.00 2		N
ATOM	493	CA			251	-25.312	32.536	31.920	1.00 2		C
ATOM	495	CB			251	-26.579	32.520	31.054	1.00 2		С
ATOM	498	CG			251	-27.719	32.783	31.974	1.00 2		C
MOTA	501	CD			251	-27.194	33.507	33.148	1.00 2		С
MOTA	504	С			251	-24.175	33.238	31.155	1.00 2		С
MOTA	505	0			251	-24.321	34.425	30.816			0
MOTA	506	N			252	-23.076	32.518	30.892	1.00 2	27.01	N
ATOM	508	CA	TRP	Α	252	-21.942	33.047	30.113	1.00 2	26.96	С
MOTA	510	CB	TRP	A	252	-20.742	32.086	30.209	1.00 2	27.01	С
MOTA	513	CG	TRP	Α	252	-19.466	32.589	29.544	1.00 2	27.07	. C
MOTA	514	CD1	TRP	Α	252	-19.056	32.336	28.274	1.00 2		С
MOTA	516		TRP			-17.856	32.956	28.023	1.00 2		N
ATOM	518		TRP			-17.464	33.628	29.147	1.00 2		C
ATOM	519		TRP			-18.451	33.412	30.128	1.00 2		Ċ
ATOM .	520		TRP			-18.274	33.994	31.386	1.00 2		Č
ATOM	522		TRP			-17.149	34.752	31.625	1.00 2		Č
ATOM	524		TRP			-16.190	34.951	30.630	1.00 2		Č
ATOM	526	CZ2				-16.328	34.397	29.383	1.00 2		C
ATOM	528	C			252	-22.364	33.291	28.641	1.00 2		C
ATOM	529	o			252	-22.650	32.340	27,914	1.00 2		0
ATOM	530	N			253	-22.413	34.552	28.207	1.00 2		N
ATOM	531	CA			253	-23.075	34.923	26.207			C
T ON	231	CA	PRO	~	200	23.013	J4. J4J	20.244	1.00 2		C
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ATOM	533	CB	PRO A 253	-22.633	36.369	26.740	1.00 26.99	С
ATOM	536		PRO A 253		36.862	28.122	1.00 27.20	č
MOTA	539	CD	PRO A 253		35.730	28.887	1.00 26.96	C
ATOM	542	С	PRO A 253	-22.783	34.037	25.707	1.00 27.29	· C
MOTA	543	0	PRO A 253	-21.842	34.201	24.927	1.00 27.33	΄ ο
ATOM ·	544		ALA A 261		46.340	25.423	1.00 34.78	N
ATOM	546	CA	ALA A 261		46.695	26.824	1.00 34.81	C
ATOM	548	CB	ALA A 261	-21.883	48.098	26.916	1.00 34.71	С
MOTA	552	С	ALA A 261	-22.192	45.678	27.518	1.00 34.78	
ATOM	553	Ö	ALA A 26		45.385	28.711	1.00 34.60	Ō
ATOM	554	N	ASP A 262		45.159	26.758	1.00 34.77	N
ATOM	556	CA	ASP A 262		44.243	27.275	1.00 34.61	C
ATOM	558	CB	ASP A 262	-24.954	43.597	26.105	1.00 34.57	C
ATOM	561	CG	ASP A 262	-25.879	44.587	25.373	1.00 34.47	С
			ASP A 262				1.00 34.39	Ö
ATOM ·	562				45.805	25.617		
ATOM	563	OD2	ASP A 263		44.240	24.536	1.00 33.23	0
ATOM	564	С	ASP A 262	-23.557	43.156	28.157	1.00 34.44	C
ATOM	565	0	ASP A 263	-23.923	43.001	29.321	1.00 34.35	0
ATOM	566	N	ALA A 26		42.450	27.588	1.00 34.23	N
		•						
ATOM	568	CA	ALA A 26:		41.235	28.170	1.00 33.99	. С
ATOM	570	CB	ALA A 26		40.178	27.079	1.00 34.09	, C
ATOM ·	574	С	ALA A 26	-20.650	41.464	28.862	1.00 33.70	C
ATOM	575	0	ALA A 26		40.498	29.269	1.00 33.64	0
ATOM	576	N	ARG A 26		42.737	28.941	1.00 33.29	N
MOTA	578	CA	ARG A 26		43.178	29.743	1.00 32.67	C
ATOM	580	CB	ARG A 26	-18.804	44.674	29.510	1.00 32.96	C C
ATOM	583	CG	ARG A 26	-17.716	44.953	28.482	1.00 34.81	С
ATOM	586	CD	ARG A 26		44.666	29.000	1.00 37.32	C
					44.361	27.918	1.00 37.52	
ATOM	589	NE	ARG A 26					N
MOTA	591	CZ	ARG A 26		44.011	28.100	1.00 40.37	С
ATOM	592	NH1	ARG A 26	-13.558	43.920	29.324	1.00 41.07	· N
MOTA	595	NH2	'ARG A 26	-13.278	43.754	27.055	1.00 40.24	N
ATOM	598	С	ARG A 26		42.929	31.210	1.00 31.60	C
MOTA	599	0	ARG A 26		42.225	31.911	1.00 31.31	0
MOTA	600	N	GLN A 26		43.501	31.648	1.00 30.27	N
MOTA	602	CA	GLN A 26	-21.079	43.287	32.999	1.00 29.10	C
ATOM	604	CB	GLN A 26	-22.249	44.239	33.319	1.00 28.98	С
ATOM	607	CG	GLN A 26		45.574	33.976	1.00 29.73	Č
								<u> </u>
ATOM	610	CD	GLN A 26		46.818	33.191	1.00 30.32	C
MOTA	611	OE1	GLN A 26		47.694	33.738	1.00 30.04	. 0
ATOM	612	NE2	GLN A 26	-21.885	46.895	31.917	1.00 30.05	N
ATOM	615	С	GLN A 26	-21.499	41.839	33.219	1.00 27.75	C
ATOM	616	ō	GLN A 26		41.328	34.314	1.00 27.82	ō
ATOM	617	N	GLN A 26		41.181	32.187	1.00 26.21	N
ATOM	619	CA	GLN A 26		39.808	32.321	1.00 24.92	C
ATOM	621	CB	GLN A 26	6 -23.344	39.381	31.094	1.00 24.75	C
MOTA	624	CG	GLN A 26	6 -24.787	38.953	31.377	1.00 24.16	C
MOTA	627	CD	GLN A 26			30.227	1.00 23.84	Ċ
ATOM	628		GLN A 26			30.434	1.00 23.51	0
ATOM	629	NE2				29.011	1.00 23.56	N
MOTA	632	С	GLN A 26	6 −21.408	38.795	32.554	1.00 24.04	. C
ATOM	633	0	GLN A 26	6 -21.592	37.849	33.317	1.00 23.90	0
ATOM	634	N	ARG A 26			31.902	1.00 22.85	N
ATOM	636	CA	ARG A 26			32.058	1.00 21.84	C
ATOM	638	CB	ARG A 26			30.883	1.00 21.71	С
ATOM	641	CG	ARG A 26	7 -18.580	37.268	29.730	1.00 22.50	С
ATOM	644	CD	ARG A 26			28.429	1.00 23.45	C
ATOM	647	NE	ARG A 26			27.323	1.00 24.84	N
ATOM	649	CZ	ARG A 26			26.082	1.00 24.64	C
ATOM	650		ARG A 26			25.733	1.00 25.31	N
MOTA	653	NH2	ARG A 26	7 -19.126	36.262	25.180	1.00 23.40	N

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ATOM	656	С	ARG	A 267	-18.45	7 38.232	22 414			
ATOM	657			A 267		30.232			20.83	С
ATOM	658	N		A 268	-18.38	39.496			20.47	0
ATOM	660	CA		A 268	-17.848			1.00	19.89	N
ATOM	662	CB	PHE	A 268	-17.86	41.432			19.08	С
ATOM	665			A 268	-17.385				18.83	С
ATOM	666		PHE	A 268	-16.099				17.99	С
ATOM	668	CE1	PHE	A 268	15.099				16.96	С
ATOM	670	CZ	DUT.	A 268	-15.656		38.208		17.27	С
ATOM	672		PHE	A 200	-16.507				16.82	Č
ATOM	674	CD2	DUE.	A 268	-17.794			1.00	16.87	Ċ
ATOM	676	C	PUB.	A 200	-18.226	42.700		1.00	17.26	Ċ
ATOM	677		PHE.	A 268	-18.686				18.75	č
ATOM	678	_		A 268	-18.159		37.151	1.00	18.48	ŏ
ATOM				A 269	-19.995			1.00	18.26	N
ATOM	680 682		ALA .	A 269	-20.941		37.143	1.00	17.83	C
				A 269	-22.374	39.366	36.714	1.00	17.76	C
ATOM	686			A 269	-20.761		37.317		17.28	C
ATOM	687	0		A 269	-20.662		38.446		17.23	o
MOTA	688	N		A 270	-20.725	36.876	36.178	1.00	16.61	N
ATOM	690	CA		A 270	-20.439		36.091	1.00	16.26	C
ATOM	692	CB		A 270	-20.251	35.037	34.611	1.00	16.45	
ATOM	695	CG	HIS A	A 270	-20.072	33.561	34.411	1 00	17.07	C
ATOM	696	ND1	HIS A	A 270	-21.112	32.667	34.498	1 00	17.46	C
ATOM	698	CE1	HIS A	A 270	-20.659		34.305	1 00	18.13	N
ATOM	700	NE2	HIS A	A 270	-19.363		34.081	1 00	17.84	С
MOTA	702	CD2	HIS A		-18.968		34.155	1 00	18.32	N
ATOM	704	С		A 270	-19.196		36.913	1.00	16.12	C
MOTA	705	0	HIS A	A 270	-19.222		37.760	1 00	16.15	C
MOTA	706	N	PHE A	A 271	-18.115	35.907	36.692	1.00	15.98	0
ATOM	708	CA	PHE A	A 271	-16.840		37.409			N
ATOM	710	CB	PHE A	A 271	-15.728	36.586	36.903	1.00	15.49	С
ATOM	713	CG	PHE A	A 271	-14.844	35.923	35.908	1.00	15.33	С
ATOM	714	CD1	PHE A	A 271	-15.387		34.871	1.00	17.14	C
ATOM	716	CE1	PHE F	A 271	-14.575	34.551	33.944		18.69	C
MOTA	718	CZ	PHE F	271	-13.211	34.646		1.00	19.99	C
ATOM	720	CE2	PHE A	271	-12.655	35.384	34.048 35.069	1.00	19.96	С
ATOM	722	CD2	PHE A	271	-13.473	36.015		1.00	19.86	С
ATOM	724	С	PHE A	271	-17.003	35.845	36.005	1.00	19.16	С
ATOM	725	0	PHE A	271	-16.527	35.052	38.882	1.00	14.62	С
ATOM	726	N	THR A	272	-17.732	36.882	39.664	1.00	14.92	0
ATOM	728	CA	THR A	272	-18.029		39.229		14.01	N
ATOM	730	CB	THR A		-18.697	37.264	40.588	1.00	13.51	С
ATOM	732		THR A	272	-17.981	38.673	40.511	1.00	13.40	С
ATOM	734	CG2	THR A	272	-20.135	39.587	41.346		13.64	0
ATOM	738	C	THR A	272		38.717	40.981	1.00	12.87	С
ATOM	739	Ō	THR A	272	-18.860 -18.763	36.204	41.357	1.00	13.68	С
ATOM	740	N	GLU A		-19.649	36.074	42.579	1.00	12.27	0
ATOM	742	CA	GLU A	273	-20.560	35.430	40.620	1.00	14.33	N
ATOM	744	СВ	GLU A		-20.560	34.461	41.208	1.00	14.96	С
ATOM	747		GLU A		-21.823	34.347	40.363	1.00	15.07	С
ATOM	750		GLU A		-22.783	35.506	40.595	1.00	15.71	С
ATOM	751		GLU A	272	-23.552	35.917	39.347	1.00	18.47	Č
ATOM	752	OES	GLU A	273	-23.420	35.236	38.305	1.00	19.72	Ö
ATOM	753	C	GLU A	272	-24.295	36.930	39.403	1.00	19.58	ŏ
ATOM	754	0	CLU A	273	-19.881	33.115	41.402	1.00	15.28	č
ATOM	755	И	GLU A	274	-20.162	32.411	42.365	1.00	15.66	õ
ATOM	757	CV	LEU A	2/4	-18.983	32.768	40.489	1.00	15.69	N
ATOM	759	CA CB	LEU A	2/4	-17.993	31.720	40.735	1.00	15.82	Č
ATOM	762	CG	LEU A	2/4	-17.112	31.523	39.513	1.00	16.11	Č
ATOM	764	CD1	LEU A	2/4	-17.893	30.959	38.341	1.00	18.50	C
ATOM	76 4 768	CD3	LEU A	2/4	-17.141	31.090	37.003	1.00	19.08	C
117 017	, 00	CDZ	LEU A	2/4	-18.223	29.519	38.650	1.00	21.07	C
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ATOM ATOM ATOM	772 773 774	0	LEU A LEU A ALA A	1 274	ļ	-17.091 -16.855 -16.573	32.061 31.224 33.284	41.908 42.747 41.979	1.00 1 1.00 1 1.00 1	5.73			С О И
MOTA	776	CA	ALA A			-15.706	33.668	43.100	1.00 1				С
MOTA	778		ALA A			-15.273	35.105	42.943	1.00 1				C
ATOM	782		ALA A			-16.386	33.425	44.467	1.00 1		•		C
MOTA	783		ALA A			-15.787	32.880		1.00 1				0
ATOM	784		ILE A			-17.665	33.781	44.557	1.00 1				N C
ATOM	786 788	CA CB	ILE A			-18.473 -19.853	33.595 34.224	45.739 45.515	1.00 1		•		c
ATOM ATOM	790		ILE A			-19.752	35.730	45.719	1.00 1			•	C
ATOM	793		ILE A			-20.838	36.515	45.086	1.00 1		,		č
ATOM	797		ILE A			-20.885	33.637	46.457	1.00 1		<i>'</i>		Č
ATOM	801	Ċ	ILE A			-18.635	32.128		1.00 1				C
ATOM	802	0	ILE A			-18.594	31.743	47.217	1.00 1	16.10			0
ATOM	803	N·	ILE A	A 27	7	-18.884	31.289	45.074	1.00	16.37			N
MOTA	805	CA	ILE A			-19.072	29.884	45.395	1.00			•	С
MOTA	807	CB	ILE A			-19.605	29.069	44.188	1.00 1				C
MOTA	809		ILE A			-21.009	29.557		1.00 1				C
ATOM	812		ILE A			-21.503	29.085	42.436 44.502		14.84			C
ATOM .	816	CG2	ILE A			-19.615 -17.741	27.543 29.352	44.502	1.00				C C
ATOM ATOM	820 821	Ö	ILE A			-17.775	28.554	46.868	1.00				Ö
ATOM	822	N	SER Z			-16.588	29.809	45.424	1.00				N.
ATOM	824	CA	SER A			-15.276	29.328	45.935	1.00				Ċ
ATOM	826	СВ	SER			-14.080	29.758	45.095	1.00				C
ATOM	829	QG	SER I	A 27	8	-14.033	29.048	43.876	1.00				0
MOTA	831	С	SER .			-15.047	29.819	47.331	1.00				C.
MOTA	832	0	SER .			-14.555	29.088	48.162	1.00				0
ATOM	833	N	VAL .			-15.425	31.061	47.599	1.00				N.
ATOM	835	CA	VAL .			-15.327	31.582	48.943	1.00				C
ATOM	837	CB CC1	VAL .			-15.826	33.007	49.018	1.00				C
ATOM ATOM	839 843		VAL .			-15.875 -14.915	33.460 33.940	50.457 48.179	1.00				c
ATOM	847	C	VAL			-16.101	30.691	49.899		18.11			č
ATOM	848	ŏ	VAL			-15.637	30.422	50.989	1.00				Õ
ATOM	849	N	GLN			-17.260	30.206	49.488	1.00				N
MOTA	851	CA	GLN			-18.096	29.360	50.355	1.00	19.16			C
ATOM	853	CB	GLN			-19.481	29.137	49.735	1.00				C.
MOTA	856	CG	GLN			-20.395	28.181	50.530	1.00				С
ATOM	859	CD	GLN			-21.736	27.882	49.845	1.00				С
ATOM	860	OE1	GLN			-21.832	27.889	48.617	1.00				0
ATOM	861	NE2	GLN			-22.768 -17.412	27.626 28.008	50.647 50.613	$1.00 \\ 1.00$				N C
ATOM ATOM	864 865	С 0	GLN GLN			-17.382	27.501	51.752	1.00				Ö
ATOM	866	N	GLU			-16.850	27.451	49.540	1.00				N
ATOM	868	CA	GLU			-16.128	26.191	49.597	1.00		-		c
ATOM	870	CB	GLU			-15.652	25.802	48.195	1.00				С
ATOM	873	CG	GLU			-15.182	24.352	48.059	1.00	23.43			С
MOTA	876	CD	GLU			-14.489	24.077	46.741	1.00				С
MOTA	877		GLÜ			-14.400	25.003	45.920		27.50			0
MOTA	878		GLU			-14.043	22.939	46.515		26.24			0
MOTA	879	C		A 28		-14.947	26.286	50.569		20.27			C
MOTA	880	0		A 28		-14.722	25.383	51.381		19.17	•		0
ATOM	881 883	N ĊA		A 28 A 28		-14.227 -13.020	27.401 27.618	50.493 51.279		20.70 21.12			N C
ATOM ATOM	885	· CB		A 28		-13.020 -12.241	28.824	50.743		21.12			c
ATOM	887		·ILE			-11.674	28.506	49.374		22.06			č
ATOM	890		ILE			-11.200	29.748	48.677		24.25	-		č
ATOM	894	CG2		A 28		-11.072	29.220	51.666		21.70			С
MOTA	898	С		A 28		-13.399	27.807	52.735		21.18			С
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ATOM 900 N ALA A 283 -14.455 22.977 1.00 21.82 N ATOM 902 CA VAL A 283 -14.455 28.555 25.977 1.00 21.82 N ATOM 904 CB VAL A 283 -16.530 28.635 4.469 1.00 22.43 C C ATOM 906 CGI VAL A 283 -16.530 28.635 4.469 1.00 22.43 C C ATOM 910 CC2 VAL A 283 -16.530 28.635 4.469 1.00 22.49 C C ATOM 910 CGI VAL A 283 -16.530 1.00 22.01 C C ATOM 910 CGI VAL A 283 -15.313 2.2014 4.955 9.00 22.49 C C ATOM 915 O VAL A 283 -15.313 2.2014 4.955 9.00 22.49 C C ATOM 915 N ASP A 284 -16.055 26.592 54.196 1.00 23.45 O C ASP A 284 -16.055 26.592 54.196 1.00 23.45 O C ASP A 284 -16.055 26.592 54.196 1.00 23.45 O C ASP A 284 -17.270 24.496 53.555 1.00 23.93 O C ATOM 918 CA ASP A 284 -17.270 24.496 53.555 1.00 24.56 C ATOM 928 O CD ASP A 284 -19.410 24.651 52.2474 1.00 30.69 C ATOM 928 O CD ASP A 284 -19.410 24.651 52.2474 1.00 30.69 C ATOM 926 C ASP A 284 -19.410 24.651 52.2474 1.00 30.69 C ATOM 926 C ASP A 284 -19.120 24.651 52.474 1.00 30.69 C ATOM 926 C ASP A 284 -19.189 25.776 54.342 1.00 31.56 C O ATOM 927 O ASP A 284 -15.253 24.363 54.962 1.00 22.67 C ATOM 928 N APER A 285 -12.987 23.4363 54.962 1.00 22.67 C O ATOM 928 N APER A 285 -12.987 23.4363 54.962 1.00 22.67 C O ATOM 928 O APER A 285 -12.987 23.686 54.447 1.00 21.73 N ATOM 936 CD PER A 285 -12.987 23.686 54.447 1.00 21.73 N ATOM 936 CD PER A 285 -10.851 23.025 53.551 1.00 22.99 O C ATOM 937 C C PER A 285 -10.651 23.025 53.551 1.00 22.99 O C ATOM 936 CD PER A 285 -10.651 23.025 53.551 1.00 22.99 O C ATOM 936 CD PER A 285 -10.652 23.737 53.621 1.00 19.63 C C ATOM 940 CZ PER A 285 -10.652 23.737 53.621 1.00 19.63 C C ATOM 940 CZ PER A 285 -10.652 23.737 53.621 1.00 22.34 C C ATOM 940 CZ PER A 285 -10.652 23.737 53.621 1.00 19.63 C C ATOM 940 CZ PER A 285 -10.652 23.737 53.621 1.00 19.63 C C ATOM 940 CZ PER A 285 -10.652 23.737 53.621 1.00 19.63 C C ATOM 940 CZ PER A 285 -10.652 23.737 53.621 1.00 19.63 C C ATOM 940 CZ PER A 285 -10.652 23.737 53.621 1.00 19.63 C C ATOM 940 CZ PER A 285 -10.652 23.737 53.621 1.00 19.74 C C ATOM 940 CZ PER A 286 -11.766 22.99 P	ATOM	1 899 c	ILE A 282	-12.773	27.260	E2 C24	1 00 00 00	
ATOM 904 CB VAL A 283			VAL A 283	-14.455				
ATOM 906 CGI VAL A 283		_		-14.887				
ATOM 900 CG2 VAL A 283 -16.530 29.899 55.863 1.00 22.01 C C ATOM 914 CG2 VAL A 283 -15.454 31.201 54.076 1.00 22.499 C ATOM 916 C VAL A 283 -15.313 27.404 54.959 1.00 22.99 C C ATOM 916 N ASP A 284 -16.055 26.592 54.196 1.00 23.57 N ATOM 916 N ASP A 284 -16.055 26.592 54.196 1.00 23.57 N ATOM 920 CB ASP A 284 -17.270 24.96 53.555 1.00 24.56 C ATOM 920 CB ASP A 284 -11.270 24.96 53.555 1.00 24.56 C ATOM 922 CB ASP A 284 -18.701 25.006 53.464 1.00 27.94 C ATOM 923 CB ASP A 284 -18.701 25.006 53.464 1.00 27.94 C ATOM 924 CDL ASP A 284 -19.810 24.651 52.474 1.00 30.69 C ATOM 925 CDL ASP A 284 -19.810 24.651 52.474 1.00 30.69 C ATOM 926 C ASP A 284 -15.853 24.363 54.962 1.00 22.67 ATOM 927 O ASP A 284 -15.853 24.363 54.962 1.00 22.67 ATOM 928 N PHE A 285 -15.353 24.868 54.208 1.00 21.73 N ATOM 930 CA PHE A 285 -12.39 24.488 54.208 1.00 21.73 N ATOM 930 CA PHE A 285 -12.193 24.688 54.447 1.00 20.03 T ATOM 930 CDL PHE A 285 -10.851 23.205 53.351 1.00 18.40 C ATOM 936 CDL PHE A 285 -10.851 23.205 53.351 1.00 18.40 C ATOM 936 CDL PHE A 285 -10.251 23.205 53.351 1.00 18.40 C ATOM 936 CDL PHE A 285 -10.251 23.205 53.351 1.00 18.40 C ATOM 940 CZ PHE A 285 -9.558 21.030 53.351 1.00 18.40 C ATOM 940 CZ PHE A 285 -9.558 21.030 53.351 1.00 18.40 C ATOM 940 CZ PHE A 285 -9.558 21.030 53.351 1.00 18.63 C ATOM 940 CZ PHE A 285 -9.558 21.030 53.351 1.00 18.63 C ATOM 940 CZ PHE A 285 -9.558 21.030 53.351 1.00 18.63 C ATOM 940 CZ PHE A 285 -9.558 21.030 53.351 1.00 18.63 C ATOM 940 CZ PHE A 285 -9.558 21.030 53.351 1.00 18.63 C ATOM 940 CZ PHE A 285 -9.558 21.030 53.351 1.00 18.63 C ATOM 940 CZ PHE A 285 -9.558 21.030 53.351 1.00 18.63 C ATOM 940 CZ PHE A 285 -9.558 21.030 53.351 1.00 18.63 C ATOM 940 CZ PHE A 285 -9.568 21.030 53.351 1.00 18.63 C ATOM 940 CZ PHE A 285 -9.558 21.030 53.351 1.00 18.63 C ATOM 940 CZ PHE A 285 -9.558 21.030 53.351 1.00 12.65 C ATOM 940 CZ PHE A 285 -9.558 21.030 53.35 C ATOM 940 CZ PHE A 285 -9.558 25.59 S PHE A 285 PHE A 2								
ATOM 915 C VALA 283 -15.313 27.404 54.959 1.00 22.499 C ATOM 915 O VALA 283 -15.313 27.404 54.959 1.00 22.999 C ATOM 915 O VALA 283 -15.313 27.404 54.959 1.00 22.999 C ATOM 915 O VALA 283 -16.055 27.104 54.956 1.00 23.43 O ATOM 918 CA ASP A 284 -16.055 26.592 54.196 1.00 23.43 O ATOM 918 CA ASP A 284 -16.445 26.592 54.196 1.00 23.57 N ATOM 920 CA ASP A 284 -17.270 24.496 53.555 1.00 24.56 C ATOM 923 CG APA AZWA -18.701 25.006 53.464 1.00 27.94 C ATOM 924 CD ASP A 284 -19.410 24.651 52.474 1.00 30.699 C ATOM 925 CD ASP A 284 -19.109 24.55 52.474 1.00 30.699 C ATOM 926 C ASP A 284 -15.253 24.363 34.962 1.00 22.667 C ATOM 926 N ATOM 926 ASP A 284 -15.253 24.363 34.962 1.00 22.667 C ATOM 926 N ATOM 927 C ASP A 284 -15.253 24.363 34.962 1.00 22.667 C ATOM 930 CA PHE A 285 -14.180 24.489 54.208 1.00 21.73 N ATOM 930 CA PHE A 285 -12.193 23.686 54.447 1.00 20.37 C ATOM 930 CA PHE A 285 -12.193 23.686 54.447 1.00 20.37 C ATOM 935 CG PHE A 285 -12.193 23.686 54.447 1.00 20.37 C ATOM 936 CD PHE A 285 -10.652 23.025 53.351 1.00 19.63 C ATOM 936 CD PHE A 285 -10.652 23.025 53.351 1.00 19.63 C ATOM 940 CZ PHE A 285 -9.568 20.302 53.393 1.00 18.18 C ATOM 940 CZ PHE A 285 -9.568 20.303 53.393 1.00 18.18 C ATOM 940 CZ PHE A 285 -9.568 20.303 53.393 1.00 18.18 C ATOM 940 CZ PHE A 285 -9.568 20.303 53.393 1.00 18.18 C ATOM 940 CZ PHE A 285 -9.566 20.303 53.393 1.00 18.18 C ATOM 940 CZ PHE A 285 -9.566 20.303 53.393 1.00 18.18 C ATOM 940 CZ PHE A 285 -9.566 20.303 53.933 1.00 18.18 C ATOM 940 CZ PHE A 285 -9.566 20.303 53.933 1.00 18.18 C ATOM 940 CZ PHE A 285 -9.566 20.303 53.393 1.00 18.18 C ATOM 940 CZ PHE A 285 -9.566 20.303 53.393 1.00 18.18 C ATOM 940 CZ PHE A 285 -9.566 20.303 53.393 1.00 18.18 C ATOM 940 CZ PHE A 285 -9.566 20.303 53.393 1.00 18.18 C ATOM 940 CZ PHE A 285 -9.566 20.303 53.393 1.00 18.18 C ATOM 940 CZ PHE A 285 -9.566 20.303 53.393 1.00 18.18 C ATOM 940 CZ PHE A 285 -9.566 20.303 53.393 1.00 18.18 C ATOM 940 CZ PHE A 285 -9.566 20.303 53.393 1.00 18.18 C ATOM 940 CZ PHE A 285 -9.566 20.303 53.303 1.00 18.1			G1 VAL A 283	-16.530	29.899	55.863		•
ATOM 915 O VAL A 283 -15.313 27.404 54.959 1.00 22.99 ATOM 916 N ASP A 284 -16.055 26.592 54.196 1.00 23.43 O ATOM 918 CA ASP A 284 -16.055 26.592 54.196 1.00 23.57 ATOM 920 CB ASP A 284 -16.055 26.592 54.196 1.00 23.57 ATOM 921 CG ASP A 284 -17.270 24.496 53.555 1.00 24.56 ATOM 923 CG ASP A 284 -19.410 24.651 5.056 53.464 1.00 27.94 C ATOM 924 CD ASP A 284 -19.410 24.651 5.006 53.464 1.00 27.94 C ATOM 925 ODZ ASP A 284 -19.410 24.651 5.006 53.464 1.00 27.94 C ATOM 926 C ASP A 284 -19.410 24.651 5.006 53.464 1.00 27.94 C ATOM 926 C ASP A 284 -19.410 24.651 5.006 53.464 1.00 27.94 C ATOM 927 O ASP A 284 -15.523 24.363 54.962 1.00 31.56 O ATOM 928 N PHE A 285 -14.180 24.489 54.208 1.00 31.56 O ATOM 930 CA PHE A 285 -12.939 23.686 54.447 1.00 21.07 O ATOM 930 CA PHE A 285 -12.939 23.686 54.447 1.00 21.06 C ATOM 932 CB PHE A 285 -12.939 23.686 54.447 1.00 21.06 C ATOM 936 CD PHE A 285 -12.958 21.030 53.931 1.00 18.40 C ATOM 936 CD PHE A 285 -10.851 23.025 53.551 1.00 19.63 C ATOM 936 CD PHE A 285 -9.558 21.030 53.393 1.00 18.18 C ATOM 940 CC PHE A 285 -9.558 21.030 53.393 1.00 18.18 C ATOM 940 CC PHE A 285 -9.558 21.030 53.393 1.00 18.18 C ATOM 947 C PHE A 285 -9.558 21.030 53.994 1.00 17.14 C ATOM 947 O PHE A 285 -11.745 13.661 1.00 17.14 C ATOM 940 CD PHE A 285 -11.745 13.661 1.00 17.14 C ATOM 940 CD PHE A 285 -11.745 13.661 1.00 17.15 C ATOM 940 CD PHE A 285 -11.745 13.661 1.00 17.14 C ATOM 940 CD PHE A 285 -11.745 13.661 1.00 17.14 C ATOM 940 CD PHE A 285 -11.745 13.661 1.00 17.14 C ATOM 940 CD PHE A 285 -11.745 13.661 1.00 17.14 C ATOM 940 CD PHE A 285 -11.745 13.365 1.00 18.18 C ATOM 940 CD PHE A 285 -11.745 13.365 1.00 17.14 C ATOM 940 CD PHE A 285 -11.745 13.365 1.00 17.14 C ATOM 940 CD PHE A 285 -11.745 13.365 1.00 17.14 C ATOM 940 CD PHE A 285 -11.745 13.365 1.00 17.14 C ATOM 940 CD PHE A 285 -11.745 13.365 1.00 17.14 C ATOM 940 CD PHE A 285 -11.745 13.365 1.00 17.14 C ATOM 940 CD PHE A 285 -11.745 13.365 1.00 17.14 C ATOM 940 CD PHE A 285 -11.745 13.365 1.00 17.75 C ATOM 940 CD PHE A 285 -11.745 13.365 1			G2 VAL A 283	-15.454				
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ATOM 910 CB ASF A 284 -16.052 26.592 54.966 1.00 23.57 N ATOM 920 CB ASF A 284 -17.270 24.496 53.555 1.00 24.56 ATOM 920 CB ASF A 284 -19.170 25.006 53.464 1.00 27.94 C ATOM 924 CD ASF A 284 -19.170 25.006 53.464 1.00 27.94 C ATOM 925 CD ASF A 284 -19.170 25.006 53.464 1.00 27.94 C ATOM 926 CD ASF A 284 -19.180 25.776 54.342 1.00 31.56 O ATOM 926 CD ASF A 284 -15.525 24.363 54.962 1.00 22.67 O ATOM 928 N PHE A 285 -15.253 24.363 54.962 1.00 22.67 O ATOM 928 N PHE A 285 -14.180 24.489 54.208 1.00 21.73 N ATOM 932 CB PHE A 285 -12.137 23.695 53.591 1.00 22.99 O ATOM 932 CB PHE A 285 -12.137 23.695 53.194 1.00 20.37 N ATOM 932 CB PHE A 285 -10.872 25.33 51 1.00 18.40 C ATOM 934 CD PHE A 285 -10.872 36.55 33.931 1.00 18.40 C ATOM 934 CD PHE A 285 -9.558 21.030 53.393 1.00 18.18 C ATOM 940 CZ PHE A 285 -9.558 21.030 53.393 1.00 18.18 C ATOM 940 CZ PHE A 285 -9.558 21.030 53.393 1.00 18.18 C ATOM 944 CD2 PHE A 285 -8.460 21.745 53.668 1.00 17.14 C ATOM 947 CP PHE A 285 -8.444 23.107 53.661 1.00 19.63 A ATOM 940 CZ PHE A 285 -8.444 23.107 53.661 1.00 16.48 C ATOM 947 CP PHE A 285 -8.444 23.107 53.661 1.00 16.48 C ATOM 948 CD PHE A 285 -11.761 23.414 56.515 1.00 21.74 C ATOM 946 CD PHE A 285 -11.761 23.414 56.515 1.00 21.74 C ATOM 947 CP PHE A 285 -11.761 23.414 56.515 1.00 22.34 N ATOM 950 CA ALIA A 286 -11.398 26.144 56.945 1.00 22.34 N ATOM 950 CA ALIA A 286 -11.368 27.662 56.873 1.00 22.09 C ATOM 950 CA ALIA A 286 -11.368 27.662 56.873 1.00 22.34 N ATOM 950 CA ALIA A 286 -11.368 27.662 56.873 1.00 22.34 N ATOM 950 CA ALIA A 286 -11.367 27.563 59.99 1.00 21.76 C ATOM 974 C PLE A 285 -11.761 23.414 56.515 1.00 22.34 N ATOM 960 CD ALIA A 286 -11.367 27.566 50 S8.255 1.00 22.99 C ATOM 990 CA ALIA A 286 -11.567 25.630 S8.255 1.00 23.62 N ATOM 960 CD ALIA A 286 -11.367 25.630 S8.255 1.00 23.62 N ATOM 960 CD ALIA A 286 -11.567 25.630 S8.255 1.00 23.62 N ATOM 979 C C ALIA A 288 -1.576 25.630 S8.255 1.00 23.35 C ATOM 990 CD GLIN A 288 -1.576 25.630 S8.255 1.00 23.35 C ATOM 990 CD GLIN A 288 -1.576 25.333 S9.438 1.00 22.42 C		•		-14.946				
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ATOM 923 CG ASP A 284 -18.701 25.006 53.555 1.000 27.94 ATOM 924 ODI ASP A 284 -19.9410 24.651 52.474 1.00 30.69 C ATOM 925 ODZ ASP A 284 -19.9410 24.651 52.474 1.00 30.69 C ATOM 926 C ASP A 284 -19.189 25.776 54.342 1.00 31.55 O ATOM 927 O ASP A 284 -15.253 24.363 54.962 1.00 22.67 C ATOM 930 CA PHE A 285 -12.131 23.576 55.875 1.00 22.99 O ATOM 930 CA PHE A 285 -12.137 23.695 53.194 1.00 21.73 N ATOM 932 CB PHE A 285 -12.137 23.695 53.194 1.00 21.73 N ATOM 935 CG PHE A 285 -10.762 21.667 53.241 1.00 18.40 C ATOM 936 CD PHE A 285 -9.558 21.030 53.391 1.00 18.40 C ATOM 937 C PHE A 285 -8.460 21.745 53.668 1.00 21.73 N ATOM 940 CZ PHE A 285 -8.460 21.745 53.668 1.00 17.14 C ATOM 940 CZ PHE A 285 -8.460 21.745 53.668 1.00 17.14 C ATOM 940 CZ PHE A 285 -9.726 23.737 33.621 1.00 17.14 C ATOM 940 CZ PHE A 285 -9.726 23.737 33.782 1.00 17.14 C ATOM 940 CZ PHE A 285 -9.726 23.737 33.782 1.00 17.14 C ATOM 940 CZ PHE A 285 -9.726 23.737 33.782 1.00 17.14 C ATOM 940 CZ PHE A 285 -9.726 23.737 33.782 1.00 17.14 C ATOM 940 CZ PHE A 285 -9.726 23.737 33.782 1.00 17.14 C ATOM 940 CZ PHE A 285 -9.726 23.737 33.782 1.00 17.14 C ATOM 940 CZ PHE A 285 -9.726 23.737 33.782 1.00 17.14 C ATOM 940 CZ PHE A 285 -9.726 23.737 33.782 1.00 17.14 C ATOM 950 CA ALA A 286 -11.761 23.414 55.519 55.831 1.00 21.65 C ATOM 950 CA ALA A 286 -11.761 23.414 55.519 55.831 1.00 22.24 N ATOM 950 CA ALA A 286 -11.761 23.414 55.519 55.831 1.00 22.24 N ATOM 950 CA ALA A 286 -11.398 25.549 58.258 1.00 22.34 C ATOM 950 CA ALA A 286 -11.967 25.605 58.873 1.00 22.09 C ATOM 950 CA ALA A 286 -11.967 25.348 59.214 1.00 22.34 C ATOM 960 CA ALYA A 286 -11.967 25.605 58.873 1.00 22.09 C ATOM 970 C ALYA A 287 -13.672 25.549 58.258 1.00 22.34 C ATOM 960 CA ALYA A 286 -11.985 25.499 58.258 1.00 23.62 N ATOM 960 CA ALYA A 286 -11.985 25.499 58.258 1.00 23.62 N ATOM 970 C ALYA A 287 -13.672 25.499 58.258 1.00 23.62 N ATOM 980 C GLYS A 287 -15.692 26.964 59.266 1.00 33.37 C ATOM 980 C GLYS A 287 -15.890 26.914 59.266 10.00 23.65 C ATOM 990 C C ALA A 286 -11.950 26.612 5				-16.445	25.232			
ATOM 392 ODI ASP A 284 -19.10 25.006 53.464 1.00 27.94 C				-17.270				C
ATOM 926 OC ASP A 284 -19.189 25.776 54.342 1.00 30.69 O ATOM 926 C ASP A 284 -15.253 24.363 54.962 1.00 22.67 C ATOM 928 N PHE A 285 -12.137 23.695 53.194 1.00 20.37 C ATOM 930 CA PHE A 285 -12.137 23.695 53.194 1.00 20.37 C ATOM 935 CG PHE A 285 -10.07.62 21.667 53.241 1.00 10.08 7 C ATOM 936 CD PHE A 285 -10.07.62 21.667 53.241 1.00 19.63 C ATOM 936 CD PHE A 285 -10.07.62 21.667 53.241 1.00 19.63 C ATOM 936 CD PHE A 285 -9.558 21.030 53.393 1.00 18.18 C ATOM 936 CD PHE A 285 -9.558 21.030 53.393 1.00 19.63 C ATOM 940 C2 PHE A 285 -9.558 21.030 53.393 1.00 19.63 C ATOM 940 C2 PHE A 285 -9.558 21.030 53.393 1.00 17.14 C ATOM 940 C2 PHE A 285 -9.726 23.737 53.621 1.00 17.15 C ATOM 940 CD PHE A 285 -9.726 23.737 53.621 1.00 17.15 C ATOM 940 CD PHE A 285 -11.761 23.414 56.515 1.00 21.764 C ATOM 947 O PHE A 285 -11.761 23.414 56.515 1.00 21.764 C ATOM 947 O PHE A 285 -11.761 23.414 56.515 1.00 21.764 C ATOM 950 CA ALA A 286 -11.398 26.144 56.915 1.00 22.34 C ATOM 950 CA ALA A 286 -11.398 26.144 56.915 1.00 22.34 C ATOM 950 CA ALA A 286 -11.398 26.144 56.915 1.00 22.34 C ATOM 950 CA ALA A 286 -11.12 55.95 55.81 59.20 22.34 C ATOM 950 CA ALA A 286 -11.12 55.95 55.81 59.20 22.09 C ATOM 950 C A ALA A 286 -11.245 25.39 58.825 1.00 22.34 C ATOM 960 CA ALYS A 287 -14.622 25.133 99.438 1.00 22.09 C ATOM 960 CA ALYS A 287 -14.622 25.133 99.438 1.00 22.09 C ATOM 960 CA ALYS A 287 -14.622 25.133 99.438 1.00 22.09 C ATOM 960 CA ALYS A 287 -14.622 25.133 99.438 1.00 24.58 C ATOM 970 C ALYS A 287 -15.534 25.135 99.304 1.00 22.03 62 N ATOM 960 CA ALYS A 287 -15.534 25.135 99.304 1.00 22.03 62 N ATOM 960 CA ALYS A 287 -14.622 25.133 99.438 1.00 24.58 C ATOM 970 C ALYS A 287 -14.622 25.133 99.438 1.00 24.58 C ATOM 970 C ALYS A 287 -14.622 25.133 99.438 1.00 24.58 C ATOM 970 C ALYS A 287 -14.692 26.614 58.412 1.00 30.44 C C ATOM 970 C ALYS A 287 -14.692 26.614 58.412 1.00 30.44 C C ATOM 970 C ALYS A 287 -14.692 26.614 58.412 1.00 30.44 C C ATOM 970 C ALYS A 287 -14.692 26.614 58.412 1.00 30.44 C C ATOM 970 C ALYS A 287 -14.692 26.6						53.464	1.00 27.94	
ATOM 927 O ASF A 284 -15.253 24.365 54.962 1.00 31.56 O ASF A 284 -15.253 24.365 54.962 1.00 32.67 C ASF A 284 -15.253 24.365 54.962 1.00 22.67 C ASF A 285 -12.531 23.576 55.875 1.00 22.99 O ASF A 285 -12.993 23.686 54.447 1.00 21.73 N ATOM 930 CA PHE A 285 -12.993 23.686 54.447 1.00 21.06 N ATOM 932 CB PHE A 285 -12.137 23.695 53.194 1.00 20.37 C ATOM 935 CG PHE A 285 -10.762 21.667 53.391 1.00 18.40 C ATOM 936 CD PHE A 285 -10.762 21.667 53.351 1.00 18.40 C ATOM 936 CD PHE A 285 -9.558 21.030 53.393 1.00 18.18 C ATOM 940 CZ PHE A 285 -9.558 21.030 53.393 1.00 18.18 C ATOM 940 CZ PHE A 285 -9.558 21.030 53.393 1.00 18.18 C ATOM 940 CZ PHE A 285 -9.726 23.174 53.668 1.00 17.51 C ATOM 944 CDZ PHE A 285 -9.726 23.174 53.668 1.00 17.51 C ATOM 944 CDZ PHE A 285 -12.224 24.199 55.691 1.00 17.51 C ATOM 940 CZ PHE A 285 -12.224 24.199 55.691 1.00 21.65 C ATOM 940 CZ PHE A 285 -12.224 24.199 55.691 1.00 21.65 C ATOM 940 CZ PHE A 286 -12.111 23.414 56.515 1.00 21.74 O ATOM 950 CA ATOM			D1 ASP A 284	-19.410			1.00 30.69	
ATOM 928 N PHE A 284 -15.314 23.576 55.875 1.00 22.99 O ATOM 928 N PHE A 285 -12.993 23.566 54.407 1.00 21.06 C ATOM 930 CA PHE A 285 -12.993 23.686 54.447 1.00 21.06 C ATOM 935 CB PHE A 285 -12.993 23.686 54.447 1.00 21.06 C ATOM 935 CB PHE A 285 -10.851 23.025 53.194 1.00 20.37 C ATOM 936 CD1 PHE A 285 -10.851 23.025 53.194 1.00 18.40 C ATOM 936 CD1 PHE A 285 -10.762 21.667 53.241 1.00 18.40 C ATOM 938 CEI PHE A 285 -9.558 21.030 53.351 1.00 18.63 C ATOM 940 CZ PHE A 285 -8.460 21.745 53.668 1.00 17.14 C ATOM 940 CZ PHE A 285 -9.726 23.737 53.621 1.00 17.14 C ATOM 940 CZ PHE A 285 -9.726 23.737 53.621 1.00 16.48 C ATOM 940 CZ PHE A 285 -12.224 24.199 55.691 1.00 21.74 O ATOM 940 CZ PHE A 285 -12.224 24.199 55.691 1.00 21.74 O ATOM 947 O PHE A 285 -12.224 24.199 55.691 1.00 21.74 O ATOM 948 N ALA A 286 -11.761 23.414 56.515 1.00 21.74 O ATOM 950 CA ALA A 286 -11.761 23.414 56.945 1.00 22.34 N ATOM 950 CA ALA A 286 -11.548 27.662 56.873 1.00 22.09 C ATOM 950 CA ALA A 286 -11.548 27.662 56.873 1.00 22.09 C ATOM 950 CA ALA A 286 -11.548 27.662 56.873 1.00 22.09 C ATOM 950 CA LA A 286 -11.548 27.662 56.945 1.00 22.362 N ATOM 960 CA LYS A 287 -14.022 25.133 59.438 1.00 22.99 C ATOM 960 CA LYS A 287 -14.022 25.133 59.438 1.00 22.09 C ATOM 960 CA LYS A 287 -14.022 55.133 59.438 1.00 22.779 C ATOM 970 N LYS A 287 -14.022 25.133 59.438 1.00 27.79 C ATOM 970 N LYS A 287 -13.672 23.750 59.99 10.0 24.056 C ATOM 970 N LYS A 287 -13.672 23.750 59.99 10.0 24.06 C ATOM 970 C G LN A 288 -12.971 21.495 59.266 1.00 30.44 C ATOM 970 C G LN A 288 -12.971 21.495 59.266 1.00 33.37 C ATOM 970 C G LN A 288 -11.491 21.247 59.661 1.00 30.45 C ATOM 970 C G LN A 288 -11.075 20.112 59.661 1.00 22.22 C ATOM 990 C G LN A 288 -11.075 20.112 59.661 1.00 22.22 C ATOM 990 C G LN A 288 -11.075 20.112 59.661 1.00 23.55 C ATOM 990 C G LN A 288 -11.075 20.112 59.661 1.00 23.55 C ATOM 990 C G LN A 288 -11.075 20.112 59.661 1.00 20.255 C ATOM 990 C G LN A 288 -11.075 20.112 59.661 1.00 20.255 C ATOM 990 C G LN A 288 -11.075 20.112 59.661 1.00 20.255 C			DZ ASP A 284	-19.189			1.00 31.56	
ATOM 928 N PHE A 285 -14.180 24.489 54.208 1.00 22.99 O ATOM 930 CA PHE A 285 -12.993 23.686 54.447 1.00 21.73 N ATOM 930 CD PHE A 285 -12.993 23.686 54.447 1.00 21.06 C ATOM 931 CB PHE A 285 -12.137 23.695 53.194 1.00 20.037 C ATOM 936 CDI PHE A 285 -10.851 23.025 53.351 1.00 18.40 C ATOM 936 CDI PHE A 285 -10.762 21.667 53.241 1.00 18.40 C ATOM 938 CEI PHE A 285 -10.762 21.667 53.393 1.00 18.18 C ATOM 940 CZ PHE A 285 -8.460 21.745 53.668 1.00 17.14 C ATOM 940 CZ PHE A 285 -8.544 23.107 53.782 1.00 17.51 C ATOM 942 CE2 PHE A 285 -9.726 23.737 53.621 1.00 17.51 C ATOM 944 CD2 PHE A 285 -9.726 23.737 53.621 1.00 17.51 C ATOM 946 C PHE A 285 -11.761 23.414 56.515 1.00 21.65 C ATOM 947 O PHE A 285 -11.761 23.414 56.515 1.00 21.65 C ATOM 948 N ALA A 286 -11.761 23.414 56.515 1.00 21.65 C ATOM 948 N ALA A 286 -11.398 26.144 56.945 1.00 22.24 N ATOM 950 CA ALA A 286 -11.967 25.630 58.255 1.00 22.09 C ATOM 957 O ALA A 286 -11.967 25.630 58.255 1.00 22.09 C ATOM 957 O ALA A 286 -11.967 25.630 58.255 1.00 22.09 C ATOM 957 O ALA A 286 -11.967 25.630 58.255 1.00 22.09 C ATOM 958 N LYS A 287 -13.285 25.499 58.258 1.00 22.09 C ATOM 950 CA LYS A 287 -14.022 25.133 59.438 1.00 22.99 C ATOM 960 CA LYS A 287 -14.022 25.133 59.438 1.00 22.54 C ATOM 960 CA LYS A 287 -14.022 25.133 59.438 1.00 22.54 C ATOM 960 CA LYS A 287 -14.022 25.133 59.438 1.00 23.62 N ATOM 960 CA LYS A 287 -14.022 25.133 59.438 1.00 24.58 C ATOM 970 C LYS A 287 -14.022 25.133 59.438 1.00 24.58 C ATOM 970 C LYS A 287 -18.692 26.964 59.266 1.00 30.44 C ATOM 970 C LYS A 287 -18.692 26.964 59.266 1.00 30.45 C ATOM 970 C LYS A 287 -18.692 26.964 59.266 1.00 30.45 C ATOM 970 C LYS A 287 -18.802 26.991 1.00 23.67 N ATOM 980 C LYS A 287 -19.850 26.614 58.42 1.00 22.62 N ATOM 990 C D GIN A 288 -13.276 22.887 59.999 1.00 24.06 C C ATOM 991 C LYS A 287 -19.850 26.614 58.22 1.00 30.45 C C ATOM 990 C D GIN A 288 -13.276 22.887 59.999 1.00 24.06 C C ATOM 990 C D GIN A 288 -13.279 20.618 59.977 56.61 1.00 23.55 C C ATOM 991 C C ATOM 990 C C ATOM 990 C C ATOM 990 C C ATOM			7 ASE A 284	-15.253		54.962	1.00 22.67	
ATOM 930 CA PHE A 205		_	MOF A 204	-15.314			1.00 22.99	
ATOM 935 CB PHE A 285			A PHE A 205					
ATOM 935 CG PHE A 285 -10.851 23.025 53.351 1.00 18.40 C ATOM 936 CD1 PHE A 285 -10.762 21.667 53.241 1.00 18.40 C ATOM 938 CE1 PHE A 285 -9.558 21.030 53.293 1.00 18.18 C ATOM 940 CZ PHE A 285 -8.460 21.745 53.668 1.00 17.14 C ATOM 944 CD2 PHE A 285 -8.460 21.745 53.668 1.00 17.14 C ATOM 944 CD2 PHE A 285 -9.726 23.737 53.621 1.00 16.48 C ATOM 946 C PHE A 285 -12.224 24.199 55.691 1.00 16.48 C ATOM 947 O PHE A 285 -12.224 24.199 55.691 1.00 16.48 C ATOM 947 O PHE A 285 -11.761 23.414 56.515 1.00 121.74 O ATOM 948 N ALA A 286 -11.761 23.414 56.515 1.00 21.74 O ATOM 950 CA ALA A 286 -11.548 27.662 56.873 1.00 22.24 N ATOM 950 CA ALA A 286 -11.548 27.662 56.873 1.00 22.09 C ATOM 955 C ALA A 286 -11.967 25.630 58.255 1.00 22.99 C ATOM 956 C ALA A 286 -11.245 25.340 59.214 1.00 22.63 O ATOM 958 N LYS A 287 -13.285 25.499 58.258 1.00 23.62 N ATOM 960 CA LYS A 287 -13.534 25.200 59.161 1.00 22.63 O ATOM 960 CA LYS A 287 -13.534 25.200 59.161 1.00 22.41 C ATOM 960 CA LYS A 287 -16.157 66.612 59.304 1.00 22.99 C ATOM 971 CE LYS A 287 -17.429 26.774 58.442 1.00 30.45 C ATOM 978 C LYS A 287 -17.429 26.774 58.442 1.00 30.45 C ATOM 978 C LYS A 287 -13.534 25.200 59.161 1.00 22.40 C ATOM 978 C LYS A 287 -13.672 23.750 59.909 1.00 24.06 C ATOM 978 C LYS A 287 -13.672 23.750 59.909 1.00 24.06 C ATOM 978 C LYS A 287 -13.672 23.750 59.909 1.00 24.06 C ATOM 980 N GLN A 288 -13.276 22.887 58.982 1.00 23.55 C ATOM 980 C G GLN A 288 -13.279 20.618 58.291 1.00 23.55 C ATOM 990 C G GLN A 288 -13.279 20.618 58.291 1.00 23.55 C ATOM 991 OC LYS A 288 -14.991 20.346 58.92 1.00 23.55 C C ATOM 997 N VAL A 288 -15.538 19.977 56.851 1.00 22.22 C C ATOM 997 N VAL A 288 -15.538 19.977 56.851 1.00 22.22 C C ATOM 997 N VAL A 288 -15.574 18.803 56.568 1.00 33.37 O ATOM 990 C G GLN A 288 -15.574 18.803 56.568 1.00 33.37 O ATOM 990 C G GLN A 288 -15.574 18.803 56.568 1.00 23.55 C C ATOM 997 N VAL A 289 -9.236 22.217 59.304 1.00 22.42 C C ATOM 997 N VAL A 289 -9.236 22.217 59.308 1.00 22.55 C C ATOM 997 N VAL A 289 -9.236 22.217 59.308 1.00 20.55 C			R PHF A 205			54.447	1.00 21.06	. С
ATOM 938 CD1 PHE A 285		•	G PHE A 285	-12.13/			1.00 20.37	
ATOM 948 CEI PHE A 285 -9.558 21.030 53.393 53.393 C ATOM 940 CZ PHE A 285 -8.6460 21.745 53.668 1.00 17.14 C ATOM 944 CDZ PHE A 285 -8.544 23.107 53.782 1.000 16.48 C ATOM 946 CDZ PHE A 285 -9.726 23.737 53.621 1.00 16.48 C ATOM 947 O PHE A 285 -9.726 23.737 53.621 1.00 16.48 C ATOM 948 N ALA A 286 -12.111 25.519 55.631 1.00 21.65 C ATOM 950 CA ALA A 286 -11.761 23.414 56.515 1.00 21.67 C ATOM 950 CA ALA A 286 -11.1761 23.414 56.515 1.00 22.24 N ATOM 950 CA ALA A 286 -11.548 27.662 56.873 1.00 22.34 C ATOM 950 CA ALA A 286 -11.967 25.630 58.255 1.00 22.99 C ATOM 957 O ALA 286 -11.967 25.630 58.255 1.00 22.09 C ATOM 958 N LYS A 287 -13.285 25.499 58.258 1.00 23.62 N ATOM 960 CA LYS A 287 -14.022 25.133 59.438 1.00 24.58 C ATOM 961 CB LYS A 287 -14.022 25.133 59.438 1.00 24.58 C ATOM 962 CB LYS A 287 -16.157 26.612 59.304 1.00 27.79 C ATOM 971 CE LYS A 287 -17.429 26.774 58.442 1.00 30.45 C ATOM 971 CE LYS A 287 -17.429 26.774 58.442 1.00 30.45 C ATOM 978 C LYS A 287 -19.850 26.614 58.412 1.00 31.17 N ATOM 979 O LYS A 287 -13.672 23.750 59.909 1.00 24.06 C ATOM 978 C LYS A 287 -13.672 23.750 59.909 1.00 24.06 C ATOM 980 N GLN A 288 -13.276 22.887 58.982 1.00 23.67 N ATOM 980 C GLN A 288 -13.276 22.887 58.982 1.00 23.67 N ATOM 990 C GLN A 288 -13.276 22.887 58.982 1.00 23.67 N ATOM 990 C GLN A 288 -13.276 22.897 56.851 1.00 23.67 N ATOM 997 C LYS A 287 -13.662 23.750 59.909 1.00 24.06 C ATOM 997 C GLN A 288 -13.479 20.618 58.132 1.00 23.67 N ATOM 998 C GLN A 288 -13.276 22.897 59.266 1.00 33.37 C ATOM 990 C GLN A 288 -13.672 23.750 59.909 1.00 24.06 C ATOM 997 C GLN A 288 -13.672 23.750 59.909 1.00 24.06 C ATOM 997 C C SLN A 288 -13.801 23.472 61.083 1.00 29.73 C ATOM 990 C GLN A 288 -13.672 23.750 59.909 1.00 24.06 C ATOM 990 C GLN A 288 -13.672 23.750 59.909 1.00 24.06 C ATOM 990 C GLN A 288 -13.672 23.750 59.909 1.00 24.06 C ATOM 990 C GLN A 288 -13.672 23.750 59.909 1.00 25.55 C ATOM 990 C GLN A 289 -9.264 23.258 58.902 1.00 23.67 N ATOM 990 C GLN A 289 -9.264 23.258 58.902 1.00 23.67 N ATOM 990 C GLN A 289 -	ATOM		D1 PHE A 285				1.00 18.40	
ATOM 940 CZ PHE A 285 -8.460 21.745 53.668 1.00 17.14 CATOM 940 CZ PHE A 285 -8.544 23.107 53.782 1.00 17.51 CATOM 946 C PHE A 285 -9.726 23.737 53.621 1.00 16.48 CATOM 947 O PHE A 285 -12.224 24.199 55.691 1.00 21.65 CATOM 948 N ALA A 286 -11.761 23.414 56.515 1.00 21.74 O ATOM 950 CA ALA A 286 -12.111 25.519 55.831 1.00 22.24 N ATOM 950 CA ALA A 286 -11.398 26.144 56.595 1.00 22.34 CATOM 950 CA ALA A 286 -11.967 25.630 58.255 1.00 22.39 CATOM 955 CA ALA A 286 -11.967 25.630 58.255 1.00 22.09 CATOM 955 CA ALA A 286 -11.245 25.348 59.214 1.00 22.63 O ATOM 958 N LYS A 287 -13.285 25.499 58.258 1.00 23.62 N ATOM 960 CA LYS A 287 -13.285 25.499 58.258 1.00 23.62 N ATOM 960 CA LYS A 287 -15.554 25.200 59.161 1.00 25.41 CATOM 968 CD LYS A 287 -16.157 26.612 59.304 1.00 27.79 CATOM 971 CE LYS A 287 -16.157 26.612 59.304 1.00 27.79 CATOM 973 N LYS A 287 -18.692 26.774 58.442 1.00 30.45 CATOM 973 N LYS A 287 -18.692 26.794 58.442 1.00 30.45 CATOM 974 NZ LYS A 287 -18.692 26.964 59.266 1.00 30.44 CATOM 979 N LYS A 287 -13.867 26.614 58.492 1.00 31.17 N ATOM 973 N LYS A 287 -13.867 23.750 59.909 1.00 24.69 O LYS A 287 -13.672 23.750 59.909 1.00 24.69 O LYS A 287 -13.672 23.750 59.909 1.00 24.69 O LYS A 287 -13.672 23.750 59.909 1.00 24.69 O LYS A 288 -13.276 22.887 58.892 1.00 23.55 CATOM 991 OLYS A 288 -13.276 22.887 58.892 1.00 23.55 CATOM 991 OLYS A 288 -13.276 22.887 58.892 1.00 23.55 CATOM 991 OLYS A 288 -14.961 20.346 58.204 1.00 23.55 CATOM 991 OLYS A 288 -14.961 20.346 58.204 1.00 23.33 CATOM 992 CA GLN A 288 -15.784 18.803 56.568 1.00 33.37 OATOM 995 CA GLN A 288 -15.784 18.803 56.568 1.00 33.37 OATOM 995 CA GLN A 288 -15.784 18.803 56.568 1.00 33.37 OATOM 995 CA GLN A 288 -15.784 18.803 56.568 1.00 23.55 CATOM 999 CA VAL A 289 -6.6947 23.229 59.338 1.00 20.55 CATOM 999 CA VAL A 289 -6.6947 23.229 59.338 1.00 20.55 CATOM 999 CA VAL A 289 -8.523 23.112 57.423 1.00 20.55 CATOM 999 CA VAL A 289 -8.523 23.112 57.423 1.00 20.55 CATOM 999 CA VAL A 289 -8.523 23.112 57.423 1.00 20.55 CATOM 999 CA VAL A 289 -8.523 23.11	MOTA	938 C	E1 PHE A 285		21.00/	53.241	1.00 19.63	
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ATOM 968 CD LYS A 287 -16.157 26.612 59.304 1.00 27.79 C ATOM 968 CD LYS A 287 -17.429 26.774 58.442 1.00 30.45 C ATOM 971 CE LYS A 287 -18.692 26.964 59.266 1.00 30.44 C ATOM 974 NZ LYS A 287 -19.850 26.614 58.412 1.00 31.17 N ATOM 978 C LYS A 287 -13.672 23.750 59.909 1.00 24.06 C ATOM 979 O LYS A 287 -13.801 23.472 61.083 1.00 24.69 O ATOM 980 N GLN A 288 -13.276 22.887 58.982 1.00 23.67 N ATOM 982 CA GLN A 288 -12.971 21.495 59.266 1.00 23.33 C ATOM 984 CB GLN A 288 -12.971 21.495 59.266 1.00 23.55 C ATOM 990 CD GLN A 288 -14.961 20.346 58.204 1.00 23.55 C ATOM 991 OE1 GLN A 288 -15.538 19.977 56.851 1.00 29.73 C ATOM 992 NE2 GLN A 288 -15.784 18.803 56.568 1.00 33.37 O ATOM 995 C GLN A 288 -15.745 20.979 56.006 1.00 30.98 N ATOM 996 O GLN A 288 -11.075 20.112 59.461 1.00 22.42 C ATOM 997 N VAL A 289 -10.666 22.291 59.372 1.00 21.47 N ATOM 999 CA VAL A 289 -9.236 22.147 59.624 1.00 21.01 C ATOM 1001 CB VAL A 289 -8.420 23.258 58.923 1.00 20.55 C ATOM 1007 CG2 VAL A 289 -8.523 23.112 57.423 1.00 20.55 C ATOM 1011 C VAL A 289 -9.284 23.151 61.788 1.00 20.89 O ATOM 1012 O VAL A 289 -9.284 23.151 61.788 1.00 20.89 O ATOM 1014 CA PRO A 290 -8.511 1.18 1.00 21.97 C ATOM 1016 CB PRO A 290 -8.511 1.01 1.01 1.00 21.97 C ATOM 1016 CB PRO A 290 -7.576 19.691 63.374 1.00 21.97 C ATOM 1016 CB PRO A 290 -7.576 19.691 63.374 1.00 21.97 C ATOM 1016 CB PRO A 290 -7.576 19.691 63.374 1.00 21.97 C ATOM 1016 CB PRO A 290 -7.576 19.691 63.374 1.00 21.97 C ATOM 1016 CB PRO A 290 -7.576 19.691 63.374 1.00 21.97 C ATOM 1016 CB PRO A 290 -7.576 19.691 63.374 1.00 21.97 C ATOM 1016 CB PRO A 290 -7.576 19.691 63.374 1.00 21.97 C ATOM 1016 CB PRO A 290 -7.576 19.691 63.374 1.00 21.97 C ATOM 1016 CB PRO A 290 -7.576 19.691 63.374 1.00 21.97 C ATOM 1016 CB PRO A 290 -7.576 19.691 63.374 1.00 21.97 C ATOM 1016 CB PRO A 290 -7.576 19.691 63.374 1.00 21.97 C ATOM 1019 CG PRO A 290 -7.576 19.691 63.374 1.00 21.97 C ATOM 1010 CG PRO A 290 -7.576 19.691 63.374 1.00 21.97 C			R T.YS A 207	-14.022	25.133		1.00 24.58	
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ATOM 971 CE LYS A 287 -18.692 26.964 59.266 1.00 30.44 C ATOM 978 C LYS A 287 -19.850 26.614 58.412 1.00 31.17 N ATOM 979 O LYS A 287 -13.672 23.750 59.909 1.00 24.06 C ATOM 980 N GLN A 288 -13.276 22.887 58.982 1.00 23.67 N ATOM 982 CA GLN A 288 -12.971 21.495 59.266 1.00 23.33 C ATOM 984 CB GLN A 288 -12.971 21.495 59.266 1.00 23.33 C ATOM 987 CG GLN A 288 -13.479 20.618 58.132 1.00 23.55 C ATOM 990 CD GLN A 288 -14.961 20.346 58.204 1.00 26.24 C ATOM 991 OEI GLN A 288 -15.538 19.977 56.851 1.00 29.73 C ATOM 992 NE2 GLN A 288 -15.784 18.803 56.568 1.00 33.37 O ATOM 995 C GLN A 288 -15.784 18.803 56.568 1.00 33.37 O ATOM 996 O GLN A 288 -11.481 21.247 59.461 1.00 22.42 C ATOM 997 N VAL A 289 -10.666 22.291 59.372 1.00 21.47 N ATOM 999 CA VAL A 289 -9.236 22.147 59.624 1.00 22.42 C ATOM 999 CA VAL A 289 -9.236 22.147 59.624 1.00 21.01 C ATOM 1001 CB VAL A 289 -8.420 23.258 58.923 1.00 20.55 C ATOM 1001 C VAL A 289 -8.523 23.112 57.423 1.00 20.55 C ATOM 1011 C VAL A 289 -9.05 22.162 61.337 1.00 21.11 C ATOM 1012 O VAL A 289 -9.005 22.162 61.137 1.00 21.11 C ATOM 1013 N PRO A 290 -8.511 21.078 61.711 1.00 21.95 N ATOM 1016 CB PRO A 290 -8.262 21.048 63.155 1.00 21.97 C ATOM 1016 CB PRO A 290 -7.576 19.691 63.374 1.00 21.92 C	ATOM		D LYS A 287				1.00 27.79	C
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ATOM 980 N GLN A 288 -13.276 22.887 58.982 1.00 23.67 N ATOM 982 CA GLN A 288 -12.971 21.495 59.266 1.00 23.33 C ATOM 984 CB GLN A 288 -12.971 21.495 59.266 1.00 23.35 C ATOM 987 CG GLN A 288 -14.961 20.346 58.132 1.00 26.24 C ATOM 990 CD GLN A 288 -15.538 19.977 56.851 1.00 29.73 C ATOM 991 OE1 GLN A 288 -15.538 19.977 56.851 1.00 29.73 C ATOM 992 NE2 GLN A 288 -15.784 18.803 56.568 1.00 33.37 O ATOM 995 C GLN A 288 -15.745 20.979 56.006 1.00 30.98 N ATOM 996 O GLN A 288 -11.481 21.247 59.461 1.00 22.42 C ATOM 997 N VAL A 289 -10.666 22.291 59.372 1.00 21.47 N ATOM 999 CA VAL A 289 -10.666 22.291 59.372 1.00 21.47 N ATOM 1001 CB VAL A 289 -9.236 22.147 59.624 1.00 21.01 C ATOM 1003 CG1 VAL A 289 -8.420 23.258 58.923 1.00 20.55 C ATOM 1007 CG2 VAL A 289 -8.420 23.258 58.923 1.00 20.55 C ATOM 1011 C VAL A 289 -9.005 22.162 61.137 1.00 21.11 C ATOM 1012 O VAL A 289 -9.284 23.151 61.788 1.00 20.89 O ATOM 1014 CA PRO A 290 -8.521 21.078 61.711 1.00 21.55 N ATOM 1016 CB PRO A 290 -8.262 21.048 63.155 1.00 21.97 C ATOM 1016 CB PRO A 290 -7.576 19.691 63.374 1.00 21.92 C							1.00 31.17	
ATOM 982 CA GLN A 288 -13.276 22.887 58.982 1.00 23.67 N ATOM 984 CB GLN A 288 -12.971 21.495 59.266 1.00 23.33 C. ATOM 987 CG GLN A 288 -13.479 20.618 58.132 1.00 23.55 C ATOM 990 CD GLN A 288 -14.961 20.346 58.204 1.00 26.24 C. ATOM 991 OE1 GLN A 288 -15.538 19.977 56.851 1.00 29.73 C. ATOM 992 NE2 GLN A 288 -15.784 18.803 56.568 1.00 33.37 O. ATOM 995 C GLN A 288 -15.745 20.979 56.006 1.00 30.98 N ATOM 996 O GLN A 288 -11.481 21.247 59.461 1.00 22.42 C. ATOM 997 N VAL A 289 -10.666 22.291 59.372 1.00 21.47 N ATOM 999 CA VAL A 289 -10.666 22.291 59.372 1.00 21.47 N ATOM 1001 CB VAL A 289 -9.236 22.147 59.624 1.00 21.01 C. ATOM 1003 CG1 VAL A 289 -6.947 23.229 59.338 1.00 20.55 C. ATOM 1011 C VAL A 289 -8.420 23.258 58.923 1.00 20.55 C. ATOM 1011 C VAL A 289 -9.005 22.162 61.137 1.00 21.55 C. ATOM 1012 O VAL A 289 -9.284 23.151 61.788 1.00 20.89 O. ATOM 1013 N PRO A 290 -8.511 21.078 61.711 1.00 21.55 N ATOM 1016 CB PRO A 290 -7.576 19.691 63.374 1.00 21.92 C. ATOM 1019 CG PRO A 290 -7.576 19.691 63.374 1.00 21.92 C.				-13.801	23.472			
ATOM 984 CB GLN A 288 -12.971 21.495 59.266 1.00 23.33 C ATOM 987 CG GLN A 288 -13.479 20.618 58.132 1.00 23.55 C ATOM 990 CD GLN A 288 -14.961 20.346 58.204 1.00 26.24 C ATOM 991 OE1 GLN A 288 -15.538 19.977 56.851 1.00 29.73 C ATOM 992 NE2 GLN A 288 -15.784 18.803 56.568 1.00 33.37 O ATOM 995 C GLN A 288 -15.745 20.979 56.006 1.00 30.98 N ATOM 996 O GLN A 288 -11.481 21.247 59.461 1.00 22.42 C ATOM 997 N VAL A 289 -10.666 22.291 59.372 1.00 21.47 N ATOM 999 CA VAL A 289 -9.236 22.147 59.624 1.00 21.01 C ATOM 1001 CB VAL A 289 -8.420 23.258 58.923 1.00 20.55 C ATOM 1003 CG1 VAL A 289 -6.947 23.229 59.338 1.00 20.04 C ATOM 1007 CG2 VAL A 289 -8.523 23.112 57.423 1.00 20.55 C ATOM 1011 C VAL A 289 -9.005 22.162 61.137 1.00 21.11 C ATOM 1012 O VAL A 289 -9.284 23.151 61.788 1.00 20.89 O ATOM 1014 CA PRO A 290 -8.511 21.078 61.711 1.00 21.55 N ATOM 1016 CB PRO A 290 -8.511 21.078 61.711 1.00 21.97 C ATOM 1016 CB PRO A 290 -7.576 19.691 63.374 1.00 21.97 C ATOM 1019 CG PRO A 290 -8.110 18.849 63.273 1.00 21.92				-13.276				
ATOM 987 CG GLN A 288 -13.479 20.618 58.132 1.00 23.55 C ATOM 990 CD GLN A 288 -14.961 20.346 58.204 1.00 26.24 C ATOM 991 OE1 GLN A 288 -15.538 19.977 56.851 1.00 29.73 C ATOM 992 NE2 GLN A 288 -15.745 20.979 56.066 1.00 30.98 N ATOM 995 C GLN A 288 -15.745 20.979 56.006 1.00 30.98 N ATOM 996 O GLN A 288 -11.481 21.247 59.461 1.00 22.42 C ATOM 997 N VAL A 289 -10.666 22.291 59.372 1.00 21.47 N ATOM 999 CA VAL A 289 -9.236 22.147 59.681 1.00 22.22 O ATOM 1001 CB VAL A 289 -9.236 22.147 59.624 1.00 21.01 C ATOM 1003 CG1 VAL A 289 -8.420 23.258 58.923 1.00 20.55 C ATOM 1007 CG2 VAL A 289 -6.947 23.229 59.338 1.00 20.05 C ATOM 1011 C VAL A 289 -8.523 23.112 57.423 1.00 20.55 C ATOM 1012 O VAL A 289 -9.005 22.162 61.137 1.00 21.11 C ATOM 1013 N PRO A 290 -8.511 21.078 61.711 1.00 21.55 N ATOM 1016 CB PRO A 290 -8.262 21.048 63.155 1.00 21.97 C ATOM 1019 CG PRO A 290 -8.110 18.849 63.374 1.00 21.92			A GLN A 288		21.495		1.00 23.33	
ATOM 990 CD GLN A 288 -15.538 19.977 56.851 1.00 29.73 C ATOM 991 OE1 GLN A 288 -15.784 18.803 56.568 1.00 33.37 O ATOM 995 C GLN A 288 -15.745 20.979 56.006 1.00 30.98 N ATOM 996 O GLN A 288 -11.481 21.247 59.461 1.00 22.42 C ATOM 997 N VAL A 289 -10.666 22.291 59.372 1.00 21.47 N ATOM 1001 CB VAL A 289 -9.236 22.147 59.681 1.00 22.22 O ATOM 1007 CG2 VAL A 289 -8.420 23.258 58.923 1.00 21.01 C ATOM 1007 CG2 VAL A 289 -6.947 23.229 59.338 1.00 20.55 C ATOM 1011 C VAL A 289 -8.523 23.112 57.423 1.00 20.55 C ATOM 1012 O VAL A 289 -9.005 22.162 61.137 1.00 21.11 C ATOM 1013 N PRO A 290 -8.511 21.078 61.711 1.00 21.55 N ATOM 1014 CA PRO A 290 -8.511 21.078 61.711 1.00 21.55 N ATOM 1016 CB PRO A 290 -8.262 21.048 63.155 1.00 21.97 C ATOM 1019 CG PRO A 290 -8.110 18.840 63.374 1.00 20.92					20.618		1.00 23.55	
ATOM 991 OE1 GLN A 288 -15.784 18.803 56.568 1.00 33.37 O ATOM 992 NE2 GLN A 288 -15.784 18.803 56.568 1.00 30.98 N ATOM 995 C GLN A 288 -11.481 21.247 59.461 1.00 22.42 C ATOM 997 N VAL A 289 -11.075 20.112 59.681 1.00 22.22 O ATOM 999 CA VAL A 289 -10.666 22.291 59.372 1.00 21.47 N ATOM 1001 CB VAL A 289 -9.236 22.147 59.624 1.00 21.01 C ATOM 1003 CG1 VAL A 289 -8.420 23.258 58.923 1.00 20.55 C ATOM 1007 CG2 VAL A 289 -6.947 23.229 59.338 1.00 20.04 C ATOM 1011 C VAL A 289 -8.523 23.112 57.423 1.00 20.55 C ATOM 1011 C VAL A 289 -9.005 22.162 61.137 1.00 21.11 C ATOM 1013 N PRO A 290 -8.511 21.078 61.711 1.00 21.55 N ATOM 1014 CA PRO A 290 -8.511 21.078 61.711 1.00 21.55 N ATOM 1016 CB PRO A 290 -7.576 19.691 63.374 1.00 21.97 C ATOM 1019 CG PRO A 290 -8.110 18.848 63.374 1.00 21.92 C	_			-14.961		58.204		
ATOM 992 NE2 GLN A 288 -15.784 18.803 56.568 1.00 33.37 O ATOM 995 C GLN A 288 -11.481 21.247 59.461 1.00 22.42 C ATOM 996 O GLN A 289 -10.666 22.291 59.372 1.00 21.47 N ATOM 1001 CB VAL A 289 -9.236 22.147 59.624 1.00 21.01 C ATOM 1007 CG2 VAL A 289 -8.420 23.258 58.923 1.00 20.55 C ATOM 1007 CG2 VAL A 289 -8.523 23.112 57.423 1.00 20.04 C ATOM 1011 C VAL A 289 -8.523 23.112 57.423 1.00 20.55 C ATOM 1012 O VAL A 289 -9.005 22.162 61.137 1.00 21.11 C ATOM 1013 N PRO A 290 -8.511 21.078 61.711 1.00 21.55 N ATOM 1014 CA PRO A 290 -8.511 21.078 61.711 1.00 21.97 C ATOM 1019 CG PRO A 290 -8.110 18.849 63.374 1.00 21.92 C				-15.538	19.977		1.00 29.73	
ATOM 995 C GLN A 288 -11.481 21.247 59.461 1.00 22.42 C ATOM 996 O GLN A 288 -11.075 20.112 59.681 1.00 22.22 O ATOM 997 N VAL A 289 -10.666 22.291 59.372 1.00 21.47 N ATOM 1001 CB VAL A 289 -9.236 22.147 59.624 1.00 21.01 C ATOM 1003 CG1 VAL A 289 -8.420 23.258 58.923 1.00 20.55 C ATOM 1007 CG2 VAL A 289 -6.947 23.229 59.338 1.00 20.04 C ATOM 1011 C VAL A 289 -8.523 23.112 57.423 1.00 20.55 C ATOM 1012 O VAL A 289 -9.005 22.162 61.137 1.00 21.11 C ATOM 1013 N PRO A 290 -8.511 21.078 61.711 1.00 21.55 N ATOM 1014 CA PRO A 290 -8.511 21.078 61.711 1.00 21.55 N ATOM 1016 CB PRO A 290 -7.576 19.691 63.374 1.00 21.97 C ATOM 1019 CG PRO A 290 -8.110 18.849 63.232		992 NE			18.803	56.568	1.00 33.37	
ATOM 996 O GLN A 288 -11.481 21.247 59.461 1.00 22.42 C ATOM 997 N VAL A 289 -10.666 22.291 59.372 1.00 21.47 N ATOM 1001 CB VAL A 289 -9.236 22.147 59.624 1.00 21.01 C ATOM 1003 CG1 VAL A 289 -8.420 23.258 58.923 1.00 20.55 C ATOM 1007 CG2 VAL A 289 -6.947 23.229 59.338 1.00 20.04 C ATOM 1011 C VAL A 289 -8.523 23.112 57.423 1.00 20.55 C ATOM 1012 O VAL A 289 -9.005 22.162 61.137 1.00 21.11 C ATOM 1013 N PRO A 290 -8.511 21.078 61.711 1.00 21.55 N ATOM 1014 CA PRO A 290 -8.511 21.078 61.711 1.00 21.97 C ATOM 1019 CG PRO A 290 -7.576 19.691 63.374 1.00 21.92 C					20.979		1.00 30.98	
ATOM 997 N VAL A 289					21.247		1.00 22.42	
ATOM 999 CA VAL A 289						59.681	1.00 22.22	
ATOM 1001 CB VAL A 289	ATOM		VAL A 289				1.00 21.47	
ATOM 1003 CG1 VAL A 289	MOTA			-8.420			1.00 21.01	С
ATOM 1007 CG2 VAL A 289 -8.523 23.112 57.423 1.00 20.55 C ATOM 1011 C VAL A 289 -9.005 22.162 61.137 1.00 21.11 C ATOM 1013 N PRO A 290 -8.511 21.078 61.711 1.00 21.55 N ATOM 1014 CA PRO A 290 -8.511 21.078 61.711 1.00 21.55 N ATOM 1016 CB PRO A 290 -7.576 19.691 63.374 1.00 21.97 C ATOM 1019 CG PRO A 290 -8.110 18.849 63.272 C		1003 CG	1 VAL A 289				1.00 20.55	C
ATOM 1011 C VAL A 289 -9.005 22.162 61.137 1.00 21.11 C ATOM 1013 N PRO A 290 -8.511 21.078 61.711 1.00 21.55 N ATOM 1016 CB PRO A 290 -8.262 21.048 63.155 1.00 21.97 C ATOM 1019 CG PRO A 290 -8.110 18.849 63.374 1.00 21.92 C		1007 CG	2 VAL A 289				1 00 20.04	C
ATOM 1012 O VAL A 289 -9.284 23.151 61.788 1.00 20.89 O ATOM 1014 CA PRO A 290 -8.511 21.078 61.711 1.00 21.55 N ATOM 1016 CB PRO A 290 -7.576 19.691 63.374 1.00 21.97 C ATOM 1019 CG PRO A 290 -8.110 18.849 63.272 C		1011 C	VAL A 289				1.00 20.55	
ATOM 1013 N PRO A 290 -8.511 21.078 61.711 1.00 21.55 N ATOM 1014 CA PRO A 290 -8.262 21.048 63.155 1.00 21.97 C ATOM 1019 CG PRO A 290 -7.576 19.691 63.374 1.00 21.92 C							1.00 20 20	
ATOM 1014 CA PRO A 290 -8.262 21.048 63.155 1.00 21.97 C ATOM 1019 CG PRO A 290 -8.110 18.849 63.374 1.00 21.92 C				-8.511	21.078		1.00 21 55	
ATOM 1016 CB PRO A 290 -7.576 19.691 63.374 1.00 21.92 C				-8.262	21.048		1.00 21 97	
ATOM 1019 CG PRO A 290 -8.110 18 940 62 272 1 20 22 1			PRO A 290		19.691	63.374	1.00 21.92	
		1013 CG	PRO A 290	-8.110	18.849	62.272	1.00 22.54	
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MOTA MOTA	1022 1025	CD C	PRO	Α	290 290		19.795 22.201	61.074 63.648	1.00 22.12 1.00 22.60	C
ATOM	1026	0			290	-6.302	22.483	63.085	1.00 21.36	· 0
MOTA	1027	N			291	-7.862	22.840	64.728	1.00 23.56	N
ATOM ATOM	1029	CA			291	-7.273	24.061	65.253	1.00 24.05	
ATOM	1032 1033	С 0			291 291	-8.084 -8.128	25.312 26.286	64.881 65.642	1.00 24.85 1.00 25.14	C
ATOM	1033	N			292	-8.739	25.315	63.724	1.00 25.14	O N
ATOM	1036	CA			292	-9.328	26.556	63.259	1.00 25.49	C
ATOM	1038	CB			292	-9.782	26.476	61.792	1:00 25.34	· Č
ATOM	1041	CG			292	-10.313	27.793	61.247	1.00 24.83	Č
MOTA	1042		PHE			-9.473	28.687	60.606	1.00 24.26	C
MOTA	1044		PHE			-9.958	29.889	60.111	1.00 24.47	С
ATOM	1046	CZ			.292	-11.275	30.213	60.262	1.00 24.13	С
ATOM	1048		PHE			-12.130	29.324	60.890	1.00 24.51	· C
ATOM ATOM	1050 1052	CD2	PHE		292 292	-11.651	28.131	61.382	1.00 24.38	, C
ATOM	1052	0			292	-10.490 -10.486	26.935 27.995	64.155 64.754	1.00 26.26 1.00 25.69	0
ATOM	1053	N			293	-11.483	26.058	64.251	1.00 23.69	О N
ATOM	1056	CA			293	-12.710	26.388	64.964	1.00 27.03	C
ATOM	1058	СВ			293	-13.840	25.376	64.683	1.00 29.02	č
MOTA	1061	CG			293	-14.810	25.599	63.488	1.00 31.33	Č
MOTA	1063		LEU			-16.103	24.757	63.649	1.00 32.23	С
MOTA	1067		LEU			-15.200	27.064	63.259	1.00 32.62	0 0 0 0
ATOM	1071	C			293	-12.422	26.513	66.458	1.00 28.53	C
MOTA	1072	0			293	-13.307	26.810	67.227	1.00 29.36	0
ATOM ATOM	1073 1075	N CA			294 294	-11.175 -10.793	26.343	66.857	1.00 28.36 1.00 28.53	Ŋ
ATOM	1073	CB			294	-10.793	26.517 25.229	68.233 68.671	1.00 28.53	C C
ATOM	1080	CG			294	-11.080	23.994	68.980	1.00 29.09	C
ATOM	1083	CD			294		23.596	67.821	1.00 31.94	C
MOTA	1084		GLN			-11.601	23.523	66.654	1.00 33.37	Ō
ATOM	1085	NE2			294	-13.285	23.343	68.153	1.00 32.22	N
ATOM	1088	С			294	-9.927	27.765	68.483	1.00 28.31	C
ATOM	1089	0			294	-9.371	27.939	69.568	1.00 28.59	0
MOTA	1090	N			295	-9.821	28.644	67.479	1.00 27.61	N
ATOM ATOM	1092 1094	CA CB			295 295	-9.274 -8.658	30.007 30.501	67.642 66.340	1.00 25.98 1.00 25.70	C
ATOM	1097	CG			295	-7.250	30.025	66.006	1.00 25.70	C
ATOM	1099	CD1	LEU			-6.950	30.228	64.483	1.00 25.84	C
ATOM	1103		LEU			-6.190	30.700	66.899	1.00 25.19	Č
ATOM	1107	С			295	-10.417	30.935	68.024	1.00 25.16	Ċ
MOTA	1108	0			295	-11.575	30.558	67.862	1.00 24.68	0
	1109	N			296	-10.097	32.143	68.505	1.00 24.51	N
ATOM	1111	CA			296		33.132	68.854		_
ATOM ATOM	$\frac{1114}{1115}$	C			296	-11.784 -11.126	33.597	67.590	1.00 24.16	. C
ATOM	1116	O N			296 297	-13.080	33.708	66.564	1.00 24.80	0
ATOM	1118	CA			297	-13.810	33.860 34.213	67.620 66.382	1.00 24.32 1.00 25.00	N C
ATOM	1120	CB			297	-15.255	34.611	66.698	1.00 25.43	C
MOTA	1123	CG			297	-16.188	34.290	65.559	1.00 27.42	·č
MOTA	1126	CD			297	-17.373	35.210	65.432	1.00 31.34	Č,
	1129	NE	ARG			-18.364	34.571	64.557	1.00 35.73	N
ATOM	1131	CZ			297	-19.306	35.200	63.859	1.00 37.74	C
ATOM	1132		ARG			-19.424	36.516	63.913	1.00 38.58	N
ATOM	1135		ARG			-20.138	34.496	63.102	1.00 38.50	N
ATOM ATOM	1138 1139	C O			297 297	-13.182 -13.282	35.312 35.238	65.466	1.00 24.72	C
ATOM	1140	N	GLU			-12.582	36.328	64.232 66.090	1.00 23.75 1.00 24.68	О 0
ATOM	1142	CA	GLU			-11.933	37.438	65.387	1.00 24.00	C
MOTA	1144	СВ	GLU			-11.537	38.549	66.372	1.00 25.42	· C
								- · -		J

7.004	1147	00	OT II	m 0	200	10 416	20 704	CC 21F	1 00 00		_
MOTA	1147	CG	GLU			-12.416	39.784	66.315	1.00 28.		С
MOTA	1150	CD	GLU	A. 2	298	-13.846	39.509	66.741	1.00 32.	48	С
ATOM	1151	OE1	GLU	A 2	298	-14.656	39.068	65.869	1.00 35.	14	0
MOTA	1152	OE2	GLU .	A 2	298	-14.156	39.737	67.944	1.00 34.		Ö
ATOM	1153	С	GLU .			-10.695	36.976	64.615	1.00 24.		č
			GLU .								
ATOM	1154	0				-10.458	37.418	63.488	1.00 23.		0
MOTA	1155	N	ASP .			-9.902	36.108	65.227	1.00 23.		N
MOTA	1157	CA	ASP .	A 2	299	-8.799	35.478	64.505	1.00 22.	93	C
ATOM	1159	CB	ASP .	A 2	299	-7.881	34.701	65.449	1.00 22.		С
MOTA	1162	CG	ASP			-7.095	35.611	66.379	1.00 22.		Č
ATOM	1163		ASP			-6.927	36.798				
								66.038	1.00 21.		0
ATOM	1164		ASP			-6.622	35.221	67.473	1.00 24.		0
MOTA	1165	С	ASP			-9.274	34.553	63.392	1.00 22.	80	C
ATOM	1166	0	ASP	A 2	299	-8.617	34.464	62.367	1.00 22.	18	0
MOTA	1167	N	GLN	A 3	300	-10.404	33.864	63.583	1.00 22.		N
ATOM	1169	CA	GLN			-10.942	33.027	62.510	1.00 22.		Ċ
-	1171	CB	GLN			-12.216	32.311		1.00 22.		C
ATOM								62.924			C
ATOM	1174	CG	GLN			-11.973	31.073	63.743	1.00 23.		С
MOTA	1177	CD	GLN			-13.227	30.542	64.412	1.00 23.	65	С
ATOM	1178	OE1	GLN	A :	300	-13.146	30.027	. 65.521	1.00 24.	04	0
MOTA	1179	NE2	GLN	A 3	300	-14.378	30.679	63.757	1.00 23.	0.5	И.
MOTA	1182	C	GLN			-11.261	33.863	61.293	1.00 22.	-	Ċ
ATOM	1183	ŏ	GLN			-10.993	33.443	60.164	1.00 24.		
											0
ATOM	1184	N	ILE			-11.854	35.030	61.534	1.00 22.		N
ATOM	1186	CA	ILE			-12.253	35.953	60.491	1.00 21.		C
ATOM	1188	CB	ILE	A :	301	-13.185	37.048	61.078	1.00 21.		С
ATOM	1190	CG1	ILE	A :	301	-14.594	36.477	61.342	1.00 22.	74	С
ATOM	1193	CD1				-15.503	37.351	62.232	1.00 22.		Ċ
ATOM	1197		ILE			-13.313	38.185	60.127	1.00 21.		č
ATOM	1201	C	ILE			-11.020	36.576	59.838			C
									1.00 21.		C
MOTA	1202	0	ILE			-10.971	36.722	58.605	1.00 21.		0
ATOM	1203	N	ALA			-10.036	36.922	60.674	1.00 20.	83	N
ATOM	1205	CA	ALA	A :	302	-8.830	37.605	60.233	1.00 20.	46	С
ATOM	1207	CB	ALA	A :	302	-7.987	37.974	61.406	1.00 19.	86	С
ATOM	1211	С	ALA			-8.039	36.724	59.281	1.00 20.		Ċ
ATOM	1212	ō	ALA			-7.610	37.189	58.216	1.00 20.		ő
ATOM	1213	N	LEU			-7.872	35.453	59.658			
									1.00 21.		N
ATOM	1215	CA	LEU			-7.090	34.488	58.881	1.00 21.		С
ATOM	1217	CB	LEU			-6.801	33.228	59.684	1.00 21.		С
ATOM	1220	CG	LEU	Α:	303	-6.008	33.467	60.968	1.00 21.	16	С
ATOM	1222	CD1	LEU	A :	303	-5.946	32.138	61.668	1.00 21.	97	С
ATOM	1226	CD2	LEU	A :	303	-4.600	34.067	60.755	1.00 19.		Ċ
ATOM	1230	С	LEU			-7.786	34.109	57.585	1.00 22.		Č
ATOM	1231	ŏ	LEU			-7.134	33.988	56.537	1.00 22.		
ATOM	1232	N	LEU					57.639			0
						-9.100	33.918		1.00 23.		N
ATOM	1234	CA	LEU			-9.856	33.696	56.403	1.00 24.		C
MOTA	1236	CB	LEU			-11.294	33.276	56.694	1.00 25.	13	С
MOTA	1239	CG	LEU			-11.480	31.777	56.894	1.00 27.	17	Ç
MOTA	1241	CD1	LEU	A :	304	-12.937	31.437	57.319	1.00 27.	02	Ċ
ATOM	1245		LEU			-11.069	31.035	55.600	1.00 28.		č
MOTA	1249	C	LEU			-9.838	34.926	55.483	1.00 24.		Č
MOTA	1250		LEU								
		0				-9.728	34.784	54.278	1.00 25.		0
ATOM	1251	N	LYS			-9.938	36.128	56.033	1.00 24.		N
ATOM	1253	CA	LYS			-9.977	37.306	55.173	1.00 24.		С
MOTA	1255	CB	LYS			-10.122	38.628	55.957	1.00 25.	19	С
ATOM	1258	CG	LYS	A :	305	-11.575	39.064	56.156	1.00 27.		Č
MOTA	1261	CD	LYS			-11.731	40.506	56.674	1.00 29.		Č
ATOM	1264	CE	LYS			-11.169	41.544	55.708	1.00 29.		č
ATOM	1267	NZ	LYS			-12.152	42.664	55.499			
ATOM	1271	C							1.00 29.		N
			LYS			-8.738	37.360	54.307	1.00 24		C
ATOM	1272	<u> </u>	LYS	A	305	-8.842	37.631	53.127	1.00 24	. 22	0

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ATOM	1273	N	ALA .	A 30	-7.576	37.100	54.893	1.00 23.38	N
ATOM	1275	CA	ALA			37.249	54.191	1.00 22.95	C
ATOM	1277	CB	ALA	A 30	-5.225	37.367	55.183	1.00 23.00	. С
ATOM	1281	С	ALA			36.064	53.266	1.00 23.52	Ċ
ATOM	1282	0	ALA	A 30	-5.458	36.226	52.197	1.00 23.67	· · · O:
ATOM	1283	N	SER	ል 30	-6.467	34.877	53.694	1.00 23.82	N
					•				
ATOM	1285	CA	SER	A 30	-6.222	33.599	53.023	1.00 23.95	C
ATOM	1287	CB	SER	A 30	-6.596	32.467	53.986	1.00 24.44	С
									o.
MOTA	1290	OG	SER				54.863	1.00 28.57	
MOTA	1292	С	SER	A 30	-7.068	33.348	51.788	1.00 23.00	С
	1293			A 30		32.637	50.874	1.00 22.83	0
ATOM		0							
ATOM	1294	Ν .	THR	A 30	-8.270	33.870	51.809	1.00 22.03	, N
ATOM	1296	CA	THT	A 30	-9.257	33.485	50.837	1.00 21.51	C
									č
MOTA	1298	CB	THR	A 30		34.297	51.065	1.00 21.69	C
MOTA	1300	OG1	THR	A 30	-11.122	33.910	52.312	1.00 21.74	0
	1302	CG2	THR			33.909	50.100	1.00 22.66	С
MOTA									2
ATOM	1306	С	\mathtt{THR}	A 30	8 -8.725	33.603	49.407	1.00 20.49	. C
ATOM	1307	0	THR	A 30	-8.767	32.632	48.675	1.00 20.62	0
MOTA	1308	N	TTR	A 30		34.759	49.015	1.00 19.39	. N
ATOM	1310	CA	ILE	A 30	-7.715	34.924	47.646	1.00 18.77	C
						36.393	47.351	1.00 18.63	С
MOTA	1312	CB		A 30					
ATOM	1314	CG1	ILE	A 30	7.044	36.608	45.855	1.00 19.02	· C
ATOM	1317	CD1				36.358	44.924	1.00 19.57	С
-									Ö
MOTA	1321	CG2	ILE	A 30		36.793	48.139	1.00 18.43	. C
ATOM	1325	С	ILE	A 30	-6.527	34.004	47.381	1.00 18.63	С
				A 30		33.525	46.249	1.00 18.68	0
MOTA	1326	0							
MOTA	1327	N	GLU	A 31	-5.705	33.775	48.413	1.00 18.19	N
ATOM	1329	CA	GLU	A 31	-4.515	32.938	48:286	1.00 17.74	С
									č
ATOM	1331	CB		A 31		33.055	49.501	-1.00 17.22	C
ATOM	1334	CG	GLU	A 31	-3.035	34.449	49.613	1.00 17.01	. C
ATOM	1337	CD		A 31		34.694	50.786	1.00 16.86	
									0
ATOM	1338	OE1	${ t GLU}$	A 31	-1.578	33.754	51.386	1.00 17.65	0
ATOM	1339	OE2	${\tt GLU}$	A 31	-1.964	35.882	51.094	1.00 16.61	0
						31.517	48.080	1.00 18.04	Ċ
MOTA	1340	С		A 31					
ATOM	1341	0	${ t GLU}$	A 31	-4.327	30.824	47.303	1.00 19.07	0
ATOM	1342	N		A 31		31.084	48.747	1.00 18.10	N
									.,
MOTA	1344	CA	ILE	A 31	-6.409	29.721	48.622	1.00 18.31	. C
ATOM	1346	CB	TLE	A 31	-7.388	29.349	49.738	1.00 18.22	C
			ILE			29.378	51.088	1.00 19.46	C
ATOM	1348								
MOTA	1351	CD1	ILE	A 31	-7.626	29.479	52.271	1.00 20.90	· c
ATOM	1355	CG2	ILE	A 31	L -7.895	27.966	49.527	1.00 19.07	С
									č
ATOM	1359	С		A 31		29.577	47.274	1.00 18.37	С
ATOM	1360	0	ILE	A 31	L -7.004	28.511	46.690	1.00 19.22	0
ATOM	1361	N		A 31		30.651	46.782	1.00 18.59	N
ATOM	1363	CA		A 31		30.648	45.483	1.00 19.12	C
ATOM	1365	CB	MET	A 31	29.078	31.951	45.258	1.00 19.36	C
ATOM	1368	CG		A 31			45.882	1.00 21.56	. C
ATOM	1371	SD	MET	A 31			46.069	1.00 24.13	S
MOTA	1372	CE	MET	A 31	2 -12.498	33.369	44.743	1.00 24.71	С
ATOM							44.384	1.00 19.31	Č
	1376	С		A 31					С
ATOM	1377	0	MET	A 31	2 -7.549	29.928	43.330	1.00 19.64	. 0
ATOM	1378	N		A 31		30.983	44.635	1.00 19.67	N
MOTA	1380	CA		A 31			43.668	1.00 19.66	С
ATOM	1382	CB	LEU	A 31	3 -3.984	32.036	44.049	1.00 19.66	С
ATOM	1385	CG		A 31			43.609	1.00 19.99	Ċ
									تِ
MOTA	1387		LEU			34.533	44.426	1.00 20.68	C
MOTA	1391	CD2	LEU	A 31	3 -3.965		42.193	1.00 20.17	C
	1395			A 31			43.614	1.00 19.87	
ATOM		C							C
MOTA	1396	0	LEU	A 31	3 -4.102	29.071	42.557	1.00 19.56	0
ATOM	1397	N		A 31			44.768	1.00 20.83	N
ATOM	1399	CA	п₽О	A 31	4 -3.805	27.574	44.872	1.00 22.28	C

MOTA	1401	CB	LEU	Α	314	-3.727	27.163	46.359	1.00 22.48	-
ATOM	1404	CG			314	-2.398				С
ATOM	1406							47.141	1.00 23.90	C
			LEU			-1.137		46.355	1.00 24.36	С
ATOM	1410		LEU			-2.445	27.875	48.405	1.00 24.82	С
ATOM	1414	С	LEU	Α	314	-4.835	26.670	44.161	1.00 23.33	č
ATOM	1415	0			314	-4.491	25.810	43.346	1.00 23.05	C
ATOM	1416	N			315					0
ATOM	1418	CA				-6.101		44.498	1.00 24.65	N
					315	-7.195		43.976	1.00 25.56	C
ATOM	1420	CB			315	-8.528	26.462	44.650	1.00 25.69	С
MOTA	1423	CG	GLU	Α	315	-8.815	25.728	45.979	1.00 28.10	c
ATOM	1426	CD	GLU	Α	315	-8.859		45.890	1.00 30.08	0
MOTA	1427	OE1			315	-9.321				C
ATOM	1428		GLU				23.639	44.872	1.00 33.50	0
						-8.428	23.521		1.00 32.27	0
ATOM	1429	·C			315	-7.296		42.469	1.00 25.69	C
ATOM	1430	0	GLU	Α	315	-7.555	25.285	41.787	1.00 26.52	Ō
ATOM	1431	N	THR	Α	316	-7.082	27.448	41.955	1.00 25.90	
ATOM	1433	CA	THR	А	316	-7.090	27.696	40.526		N
MOTA	1435	CB			316				1.00 26.05	C
ATOM						-6.922	29.203	40.277	1.00 26.00	C
	1437		THR			-8.093	29.889	40.710	1.00 24.43	0
ATOM	1439	CG2			316	-6.825	29.557	38.776	1.00 26.36	C
ATOM	1443	С	THR	A	316	-5.949	26.911	39.881	1.00 27.15	Č
ATOM ·	1444	0	THR	Α	316	-6.106		38.827	1.00 27.00	C
MOTA	1445	N			317	-4.792	26.935			0
ATOM	1447	CA						40.526	1.00 28.49	N
ATOM					317	-3.647	26.202	40.032	1.00 29.48	С
	1449	CB			317		26.524	40.852	1.00 29.09	С
ATOM	1453	С	ALA	A	317	-3.946	24.693	40.025	1.00 30.57	С
MOTA	1454	0	ALA	Α	317	-3.513	23.991	39.109	1.00 30.74	Õ
ATOM	1455	N	ARG	Α	318	-4.687	24.216	41.028	1.00 31.85	
ATOM	1457	CA	ARG			-5.126	22.825			N
ATOM	1459	CB			318			41.101	1.00 33.09	С
						-5.911	22.570	42.392	1.00 33.39	С
ATOM	1462	CG	ARG			-5.487	21.303	43.102	1.00 36.52	С
MOTA	1465	CD	ARG	Α	318	-5.983	21.150	44.538	1.00 41.24	C
MOTA	1468	NE	ARG	Α	318	-6.420	19.776	44.794	1.00 44.94	Ŋ
ATOM	1470	CZ	ARG	Α	318	-7.700	19.383	44.906	1.00 49.98	
ATOM	1471	NH1	ARG			-8.712	20.264			С
ATOM	1474		ARG					44.812	1.00 51.18	N
						-7.985	18.089	45.115	1.00 51.48	N
MOTA	1477	C	ARG			-5.984	22.488	39.874	1.00 33.69	C
MOTA	1478	0	ARG	А	318	-5.744	21.492	39.180	1.00 33.38	0
ATOM	1479	N	ARG	Α	319	-6.941	23.375	39.589	1.00 34.59	N
MOTA	1481	CA	ARG	Α	319	-7.887	23.259	38.465	1.00 35.10	
ATOM	1483	CB	ARG			-9.108	24.159	38.716		C
ATOM	1486	CG	ARG						1.00 34.88	С
ATOM						-9.918	23.762	39.930	1.00 35.78	C
	1489	CD	ARG			-11.099	24.665	40.185	1.00 38.17	C
MOTA	1492	NE	ARG			-11.891	24.243	41.351	1.00 39.91	N
MOTA	1494	CZ	ARG	А	319	-12.277	25.046	42.355	1.00 41.85	C
ATOM	1495	NH1	ARG	A	319	-11.947	26.339	42.397	1.00 42.33	
MOTA	1498		ARG			-12.985	24.543	43.353		N
ATOM	1501	C	ARG	Δ	310	-7.285			1.00 43.47	N
ATOM	1502						23.598	37.093	1.00 35.47	С
		0	ARG			-7.976	23.569	36.076	1.00 35.25	0
ATOM	1503	N	TYR	A	320	-6.003	23.934	37.066	1.00 36.30	N
MOTA	1505	CA	TYR	Α	320	-5.333	24.270	35.818	1.00 36.91	C
MOTA	1507	CB	TYR	Α	320	-4.014	25.004	36.080	1.00 36.73	Č
MOTA	1510	CG	TYR			-3.309	25.509	34.837	1.00 36.21	
MOTA	1511		TYR							С
ATOM	1513					-3.835	26.560	34.077	1.00 36.01	С
		CE1	TYR			-3.161	27.041	32.939	1.00 35.49	С
MOTA	1515	CZ	TYR			-1.952	26.461	32.557	1.00 35.82	C
ATOM	1516	OH	TYR			-1.250	26.900	31.438	1.00 36.55	Ö
MOTA	1518 ,	CE2	TYR	Α	320	-1.432	25.416	33.299	1.00 35.51	Č
ATOM	1520		TYR	Α	320	-2.107	24.948	34.429	1.00 35.31	
ATOM	1522	C	TYR			-5.081	22.984		1 00 33.41	· C
ATOM	1523	Õ	TYR				22.304	35.058	1.00 37.52	С
			4 41/	11	<u> </u>	-4.856	21.920	35.656	1.00 37.77	0

ATOM	1524	N	ASN A	321	-5.132	23.095	33.741	1.00 38.08
MOTA	1526	CA	ASN A		-4.933	21.965	32.868	1.00 38.74
ATOM	1528	CB	ASN A		-6.292	21.542	32.305	1.00 39.04
ATOM	1531	CG	ASN A		-6.270	20.161	31.660	1.00 39.71
ATOM	1532		ASN A		-5.695	19.212	32.207	1:00 39.37
ATOM	1533		ASN A		-6.921	20.040	30.495	1.00 40.27
ATOM	1536	C	ASN A		-3.975	22.450	31.795	1.00 40.27
ATOM	1537	ō	ASN A		-4.361	23.240	30.934	1.00 39.20
ATOM	1538	N	HIS A		-2.714	22.017	31.880	1.00 38.92
ATOM	1540	CA	HIS A		-1.655	22.572	31.029	
ATOM	1542	CB	HIS A		-0.274	22.102	31.487	1.00 40.64
ATOM	1545	CG	HIS A		0.864	22.772		1.00 40.96
MOTA	1546		HIS A		1.029	24.142	30.767	1.00 42.17
ATOM	1548		HIS A		2.112		30.741	1.00 42.91
ATOM	1550		HIS A			24.440		1.00 43.21
MOTA	1552		HIS A		2.653	23.314	29.608	1.00 43.01
					1.889	22.256	30.042	1.00 42.88
MOTA	1554	C	HIS A		-1.851	22.243	29.549	1.00 40.86
MOTA	1555 1556	0	HIS A		-1.574	23.078	28.683	1.00 41.03
MOTA		N	GLU A		-2.317	21.027		1.00 41.10
ATOM	1558	CA	GLU A		-2.709	20.652	27.904	1.00 41.20
ATOM	1560	CB	GLU A		-3.456	19.306	27.896	1.00 41.38
ATOM	1563	CG	GLU A		-2.655	18.079	28.329	1.00 41.67
ATOM	1566	CD	GLU A		-3.403	16.773	28.066	1.00 41.89
ATOM	1567	OE1	GLU A		-4.263	16.390	28.904	1.00 41.85
ATOM	1568	OE2			-3.140	16.137	27.018	1.00 40.22
ATOM	1569	C	GLU A		-3.606	21.733	27.270	1.00 41.09
ATOM	1570	0	GLU A		-3.355	22.148	26.142	1.00 40.95
ATOM	1571	N	THR A		-4.626	22.190	28.015	1.00 41.03
ATOM	1573	CA	THR A		-5.670	23.114	27.504	1.00 40.78
ATOM	1575	CB	THR A		-7.095	22.609	27.932	1.00 40.89
ATOM	1577	OG1	THR A		-7.189	22.469	29.362	1.00 39.74
ATOM	1579	CG2	THR A		-7.387	21.187	27.379	1.00 40.81
ATOM	1583	C	THR A		-5.533	24.626	27.852	1.00 40.66
MOTA	1584	0	THR A		-6.207	25.455	27.232	1.00 40.67
MOTA	1585	N	GLU A		-4.659	24.975	28.802	1.00 40.26
MOTA	1587	CA	GLU A		-4.478	26.359	29.285	1.00 40.12
ATOM	1589	CB	GLU A		-3.905	27.276	28.182	1.00 40.18
ATOM	1592	CG	GLU A		-2.419	27.589	28.320	1.00 40.42
ATOM	1595	CD	GLU A		-1.562	26.845	27.301	1.00 41.51
ATOM	1596	OE1	GLU A		-1.843	25.658	27.002	1.00 41.27
ATOM	1597	OE2	GLU A		-0.595	27.450	26.787	1.00 42.41
ATOM	1598	C	GLU A		-5.738	26.999	29.917	1.00 39.99
ATOM	1599	0	GLU A		-5.946	28.221	29.812	1.00 40.10
ATOM	1600	N	CYS A		-6.541	26.183	30.609	1.00 39.50
ATOM	1602	CA	CYS A		-7.790	26.640	31.228	1.00 38.95
ATOM	1604	СВ	CYS A		-8.992	26.185	30.401	1.00 39.01
ATOM	1607	SG	CYS A		-9.111	26.981	28.799	1.00 38.58
MOTA	1608	C	CYS A		-7.992	26.138	32.643	1.00 38.53
MOTA	1609	0	CYS A		-7.344	25.183	33.093	1.00 38.33
ATOM	1610	N	ILE A		-8.945	26.771	33.316	1.00 37.77
MOTA	1612	CA	ILE A		-9.236		34.697	1.00 37.49
ATOM	1614	CB	ILE A		-9.142	27.781	35.509	1.00 37.81
ATOM	1616		ILE A		-7.742	28.428	35.312	1.00 37.66
ATOM	1619	CD1	ILE A		-7.733	29.940	35.326	1.00 36.71
ATOM	1623		ILE A		-9.465	27.528	37.007	1.00 37.15
ATOM	1627	Ċ	ILE A		-10.618	25.824	34.786	1.00 37.10
MOTA	1628	0	ILE A		-11.616	26.483	34.552	1.00 37.07
MOTA	1629	N	THR A		-10.662	24.538	35.125	1.00 36.78
MOTA	1631	CA	THR A		-11.886	23.740	35.080	1.00 36.62
MOTA	1633	CB	THR A		-11.592	22.371	34.445	1.00 36.47
MOTA	1635	OG1	THR A	328	-10.710	22.524	33.335	1.00 35.61

ATOM	1637	CG2	THR	Α	328	_	12.848	21.766	33.860	1 00	36.27	С
ATOM	1641	C			328		12.499	23.480	36.456		37.12	č
ATOM	1642	ŏ			328		12.047	22.567	37.178		37.38	Õ
ATOM	1643	N	PHE				13.539	24.250	36.799		37.04	N
ATOM	1645	CA			329		14.393	23.973	37.963		36.98	C
ATOM	1647	CB	PHE				15.369	25.106	38.138		37.16	C
ATOM	1650	CG			329			26.338				C
							14.738		38.646		38.09	C
MOTA	1651		PHE				14.309	27.316	37.774		38.50	C
ATOM	1653		PHE				13.726	28.470	38.256		39.61	C
ATOM	1655	CZ			329		13.545	28.646	39.629		39.60	C
MOTA	1657		PHE				13.963	27.667	40.501		39.64	C
ATOM	1659		PHE				14.556	26.517	40.010		39.10	C C
ATOM	1661	С			329		15.189	22.653	37.917		36.78	С
MOTA	1662	0			329		15.187	21.881	38.884		37.36	0
MOTA	1663	N			330		15.903	22.416	36.824	1.00	36.01	N
ATOM	1665	CA			330		16.477	21.095	36.574	1.00	35.45	С
ATOM	1667	CB	LEU	Α	330	-	17.773	20.911	37.375	1.00	35.35	С
ATOM	1670	CG	LEU	A	330	_	18.838	21.996	37.204	1.00	35.24	С
ATOM	1672	CD1	LEU	Α	330	-	20.224	21.375	37.099	1.00	34.65	. С
ATOM	1676	CD2	LEU	Α	330		18.771	23.012	38.342	1.00	35.02	С
MOTA	1680	С	LEU	Α	330		16.689	20.911	35.067		35.15	C
ATOM	1681	0			330		16.214	21.729	34.284		35.20	Ō
ATOM	1682	N			331		17.370	19.842	34.653		34.67	N
MOTA	1684	CA			331		17.650	19.642	33.235		34.60	Ċ
ATOM	1686	CB			331		18.594	18.450	32.996		34.84	Č
ATOM	1689	CG			331		18.187	17.152	33.694		36.07	C C
ATOM	1692	CD			331		17.697	16.071	32.717		37.53	č
ATOM	1695	CE			331		16.590	15.173	33.334		37.55	Č
ATOM	1698	NZ			331		17.013	13.739	33.451		37.10	N
MOTA	1702	C			331		18.304	20.912	32.708		33.99	
ATOM	1702				331		19.228	21.421	33.338		34.33	° C
ATOM	1703	O										0
		N			332		17.805	21.434	31.586		33.07	И
ATOM	1706	CA			332		18.426	22.566	30.872		32.35	C
ATOM	1708	CB			332		19.907	22.283	30.586		32.01	C
ATOM	1711	CG			332		20.091	21.165	29.608		31.87	C 0
ATOM	1712		ASP				19.396	21.164	28.574		31.76	0
ATOM	1713		ASP				20.907	20.242	29.774		32.07	0
ATOM	1714	C			332		18.279	23.950	31.515		31.90	С
ATOM	1715	0			332		18.887	24.910	31.057		32.08	0
ATOM	1716	N			333		17.471	24.066	32.556		31.47	N
MOTA	1718	CA			333		17.178	25.367	33.157		31.12	C C
MOTA	1720	CB			333		17.792	25.486	34.552		31.25	С
MOTA	1723	CG			333		19.276	25.713	34.537	1.00	30.67	С
MOTA	1724		PHE				20.154	24.635	34.520		30.49	С
ATOM	1726		PHE				21.531	24.834	34.492	1.00	31.19	С
MOTA	1728	CZ			333		22.040	26.127	34.498	1.00	31.20	С
MOTA	1730		PHE			-	21.165	27.213	34.518	1.00	30.95	С
ATOM	1732		PHE				19.792	27.000	34.534		30.37	C
MOTA	1734	С	PHE	Α	333	_	15.673	25.509	33.218	1.00	30.89	С
ATOM	1735	0	PHE	Α	333	_	15.061	25.168	34.232	1.00	30.67	0
MOTA	1736	N			334		15.113	25.977	32.095		30.70	N
MOTA	1738	CA			334		13.679	26.182	31.887		30.50	Ċ
ATOM	1740	CB			334		13.126	25.236	30.798		30.73	Č
MOTA	1742	OG1					14.116	24.273	30.413		30.85	ő
ATOM	1744	CG2	THR				11.959	24.400	31.335		31.05	č
ATOM	1748	C			334		13.430	27.605	31.433		30.36	Č
MOTA	1749	ō			334		14.285	28.198	30.782		30.22	Ö
ATOM	1750	N			335		12.252	28.143	31.760		30.49	И
ATOM	1752	CA			335		11.945	29.554	31.504		30.52	C
ATOM	1754	CB			335		12.281	30.417	32.744		30.50	C
ATOM	1757	CG			335		13.725	30.253	33.151		29.73	c
								50.255	55.151	1.00	29.13	Ç

ATOM	1758	CD1	TYR Z	A 335	-14.111	29.211	33.988	1.00 29.00	c
ATOM	1760	CE1		A 335	-15.437	29.008	34.319	1.00 29.25	C
ATOM	1762	CZ	TYR A	A 335	-16.404	29.848	33.813	1.00 29.43	· č
ATOM	1763	ОН		A 335	-17.728	29.640	34.157	1.00 29.83	,0
ATOM	1765	CE2		A 335	-16.047	30.890	32.964	1.00 29.62	С
ATOM .	1767	CD2		A 335	-14.711	31.082	32.634	1.00 29.34	C
ATOM	1769	C		A 335	-10.499	29.746	31.054	1.00 30.71	С
ATOM	1770	0		A 335	-9.557	29.311	31.731	1.00 30.82	0
MOTA	1771	N.		A 336	-10.355	30.397	29.900	1.00 30.62	и .
ATOM ATOM	1773	CA		A 336	-9.067	30.653	29.275	1:00 30.64	_
ATOM	1775 1778	CB OG		A 336 A 336	-9.190 -0.001	30.444	27.760	1.00 30.56	C
ATOM	1780	C		A 336	-9.901 -8.596	31.505 32.081	27.136	1.00 30.44	. 0
ATOM	1781	0.		A 336	- 9.396	32.001	29.570 29.964	1.00 30.66 1.00 30.70	
ATOM	1782	N .		A 337	-7·309	32.351	29.345	1.00 30.70	O N
ATOM	1784	CA		A 337	-6.727	33.684	29.534	1.00 30.46	N C
ATOM	1786	CB		A 337	-5.314	33.747	28.927	1.00 30.30	·, c
MOTA	1789	CG		A 337	-4.155	33.988	29.928	1.00 32.14	· c
ATOM	1792	CD		A 337	-2.765	33.637	29.325	1.00 33.30	č
MOTA	1795	CE	LYS A	A 337	-2.704	32.176	28.795	1.00 33.77	. Č
MOTA	1798	NZ		A 337	-1.345	31.557	28.831	1.00 33.44	. N
ATOM	1802	С		A 337	-7.569	34.772	28.894	1.00 30.26	C
MOTA	1803	0		A 337	-7.521	35.928	29.313	1.00 30.04	0
ATOM	1804	N		A 338	-8.305	34.402	27.845	1.00 30.27	N
ATOM	1806	CA		8 338	-9.172	35.336		1.00 29.97	C
ATOM ATOM	1808	CB		8 EE A	-9.520	34.794	25.734	1.00 30.06	. C
ATOM	1811 1812	CG OD1	ASP A	A 338	-8.406 -7.236	34.976	24.760	1.00 29.95	C
ATOM	1813		ASP A		-7.236 -8.607	34.956 35.155	25.216	1.00 29.17	0
ATOM	1814	C		A 338	-10.451	35.607	23.535 27.867	1.00 30.85 1.00 29.57	0
ATOM	1815	ŏ		A 338		36.759	28.065	1.00 29.03	C
ATOM	1816	N		339 ·		34.529	28.256	1.00 29.61	N
ATOM	1818	CA	ASP A		-12.340	34.613	29.051	1.00 29.76	C
ATOM	1820	CB		A 339	-12.776	33.208	29.519	1.00 29.82	· č
ATOM	1823	CG	ASP A	A 339	-13.224	32.292	28.352	1.00 30.31	Č
ATOM	1824		ASP A		-13.350	32.747	27.192	1.00 29.58	Ö
ATOM	1825	OD2	ASP A		-13.471	31.079	28.511	1.00 31.96	Ō
MOTA	1826	C	ASP F		-12.173	35.590	30.238	1.00 29.61	С
ATOM	1827	0	ASP F		-13.081	36.367	30.528	1.00 29.84	0
ATOM	1828	N	PHE A		-11.004	35.578	30.885	1.00 29.50	N
ATOM ATOM	1830 1832	CA CB	PHE A		-10.685	36.523	31.970	1.00 29.32	C
ATOM	1835	CG	PHE F		-9.293	36.251	32.549	1.00 29.08	C
ATOM	1836		PHE F		-9.238 -9.486	35.138 33.827	33.575 33.214	1.00 27.85	C
ATOM ·	1838		PHE P		-9.412	32.806	34.123	1.00 26.34 1.00 26.55	C
ATOM	1840	CZ	PHE F		-9.065	33.070	35.429	1.00 28.40	_
MOTA	1842	CE2			-8.784	34.382	35.816	1.00 28.88	c c
MOTA	1844	CD2	PHE F		-8.871	35.407	34.885	1.00 28.20	č
MOTA	1846	С	PHE F		-10.712	37.968	31.478	1.00 29.75	č
MOTA	1847	0	PHE F		-11.339	38.829	32.078	1.00 29.51	Ö
ATOM	1848	N	HIS A		-10.004	38.225	30.385	1.00 30.66	· N
ATOM	1850	CA	HIS A		-9.967	39.556	29.772	1.00 31.34	С
ATOM	1852	CB	HIS A		-9.107	39.538	28.498	1.00 31.57	С
ATOM	1855	CG	HIS A		-8.584	40.887	28.107	1.00 33.26	C
MOTA	1856	CE1 NDT	HIS A	3 341	-7.731	41.618	28.914	1.00 34.11	N
ATOM ATOM	1858 1860	が た い い す て す す	HIS A	3 341	-7.451 -8.087	42.766	28.319	1.00 35.02	C
ATOM	1862	CDS	HIS A	3 341 3 2/1	-8.087	42.805	27.156	1.00 34.36	N
ATOM	1864	CD5	HIS A		-8.801 -11.362	41.642 40.103	26.998	1.00 33.85	C
ATOM	1865	ŏ	HIS A		-11.612	41.293	29.461 29.628	1.00 31.38 1.00 31.11	C
ATOM.	1866	N	ARG A		-12.261	39.220	29.028	1.00 31.11	O N
							~J. UJ1	2.00 31.70	. N

ATOM	1868	CA	ARG	A	342	-13.625	39.597	28.653	1.00 32.13	С
ATOM	1870	CB	ARG			-14.335	38.433	27.951	1.00 32.29	Ċ
ATOM	1873	CG	ARG	Α	342	-13.904	38.255	26.504	1.00 33.17	Ċ
ATOM	1876	CD	ARG	Α	342	-13.552	36.819	26.123	1.00 34.29	Ċ
MOTA	1879	NE	ARG	Α	342	-13.140	36.722	24.721	1.00 35.20	И
MOTA	1881	CZ	ARG	Α	342	-12.705	35.612	24.123	1.00 35.30	C
MOTA	1882	NH1	ARG	Α	342	-12.602	34.464	24.788	1.00 34.47	N
ATOM	1885	NH2	ARG	Α	342	-12.372	35.656	22.838	1.00 36.13	N
MOTA	1888	С	ARG	Α	342	-14.452	40.034	29.845	1.00 31.97	С
MOTA	1889	0	ARG	Α	342	-15.360	40.857	29.706	1.00 32.19	0
MOTA	1890	N	ALA	Α	343	-14.130	39.477	31.008	1.00 31.72	N
MOTA	1892	CA	ALA	A	343	-14.811	39.807	32.257	1.00 31.67	С
MOTA	1894	CB	ALA	Α	343	-14.631	38.659	33.278	1.00 31.71	С
MOTA	1898	С	ALA	Α	343	-14.353	41.135	32.870	1.00 31.51	С
MOTA	1899	0	ALA	A	343	-14.768	41.476	33.980	1.00 31.63	0
ATOM	1900	N	GLY	Α	344	-13.493	41.868	32.166	1.00 31.27	N
MOTA	1902	CA	GLY	A	344	-13.075	43.197	32.587	1.00 31.26	C
ATOM	1905	С	GLY	A	344	-11.712	43.224	33.244	1.00 31.18	C
MOTA	1906	0	GLY			-11.175	44.296	33.535	1.00 31.19	0
MOTA	1907	N			345	-11.147	42.041	33.459	1.00 31.06	N
MOTA	1909	CA	LEU			-9.919	41.898	34.215	1.00 30.88	C
MOTA	1911	CB			345	-9.743	40.444	34.681	1.00 30.90	C
MOTA	1914	CG			345	-10.874	39.685	35.411	1.00 29.95	C
ATOM	1916	CD1	LEU			-10.279	38.606	36.275	1.00 30.17	C
MOTA	1920	CD2	LEU			-11.741	40.559	36.257	1.00 29.30	C
MOTA	1924	C			345	-8.684	42.371	33.426	1.00 31.15	C
MOTA	1925	0			345	-8.472	42.013	32.263	1.00 31.10	0
MOTA	1926	N			346	-7.915	43.232	34.084	1.00 31.43	N
ATOM	1928	CA			346	-6.570	43.634	33.675	1.00 31.50	C
ATOM	1930	CB			346	-5.902	44.374	34.841	1.00 31.89	C
ATOM	1933	CG			346	-6.224	45.842	34.993	1.00 31.90	C
ATOM	1936	CD			346	-5.473	46.429	36.181	1.00 31.13	C
MOTA	1937	OE1	GLN			-5.278	45.749	37.207	1.00 27.79	0
ATOM	1938	NE2			346	-5.031	47.682	36.040	1.00 31.01	N
MOTA	1941	C			346	-5.581	42.505	33.303	1.00 31.21	C
ATOM ATOM	1942 1943	O N			346 347	-5.642	41.379	33.823	1.00 31.24	0
ATOM	1945	CA			347	-4.626 -3.417	42.890	32.450	1.00 30.55	И
ATOM	1947	CB			347	-3.417 -2.625	42.125 42.877	32.115 30.995	1.00 29.63 1.00 29.42	C
MOTA	1949	CG1				-1.342	42.155	30.655	1.00 29.42	C
ATOM	1953	CG2	VAL			-3.512	43.083	29.740	1.00 28.32	C
ATOM	1957	C			347	-2.513	41.962	33.350	1.00 29.39	C
· ATOM	1958	ŏ			347	-1.935	40.899	33.591	1.00 28.20	C
ATOM	1959	Ŋ			348	-2.406	43.050	34.109	1.00 28.28	N
ATOM	1961	CA	GLU			-1.617	43.123	35.329	1.00 28.04	C
ATOM	1963	СВ	GLU	A	348	-1.819	44.497	35.988	1.00 28.17	C
ATOM	1966	CG			348	-1.084	45.660	35.318	1.00 28.94	C
ATOM	1969	CD			348	-1.955	46.586	34.455	1.00 30.20	č
MOTA	1970	OE1	GLU			-3.106	46.221	34.132	1.00 31.40	õ
MOTA	1971	OE2	GLU			-1.478	47.692	34.076	1.00 29.15	ő
ATOM	1972	С			348	-1.923	41.997	36.337	1.00 27.64	Č
ATOM	1973	0			348	-1.036	41.630	37.096	1.00 27.84	ō
ATOM	1974	N	PHE	A	349	-3.159	41.461	36.323	1.00 26.79	N
MOTA	1976	CA	PHE	A	349	-3.615	40.339	37.183	1.00 25.66	Ĉ
MOTA	1978	CB	PHE	Α	349	-5.045	40.667	37.659	1.00 25.81	Č
ATOM	1981	CG			349	-5.614	39.738	38.709	1.00 24.39	Ċ
ATOM	1982		PHE			-4.848	39.253	39.751	1.00 25.08	Ċ
MOTA	1984		PHE			-5.424	38.413	40.750	1.00 26.06	С
MOTA	1986	CZ			349	-6.773	38.075	40.682	1.00 24.63	C
MOTA	1988		PHE			-7.545	38.567	39.648	1.00 24.62	C
MOTA	1990	CD2	PHE	Α	349	-6.963	39.401	38.672	1.00 24.98	C
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ATOM	1992	C	PHE	A 349		-3.599	38.948	36.483	1 00 05 05
ATOM	1993	0		A 349		-3.144		37.067	1.00 25.03 1.00 24.41
MOTA	. 1994	N	ILE	A 350		-4.074		35.235	1.00 24.41
ATOM	1996	CA	ILE	A 350		-4.278		34.540	1.00 23.99
ATOM	1998	CB	ILE	A 350		-4.933	37.800	33.128	1.00 24.26
ATOM	2000	CG1		A 350		-6.324	38.448	33 230	1.00 24.09
ATOM	2003	CD1		A 350		-6.874		31.931	1.00 22.81
ATOM ATOM	2007	· CG2		A 350		-5.044		32.384	1.00 23.98
ATOM	2011 2012	C		A 350		-3.007		34.367	1.00 24.02
ATOM	2012	И	TTE	A 350		-3.006		34.602	1.00 23.50
ATOM	2015	CA	ASN	A 351 A 351		-1.939		33.900	1.00 24.57
ATOM	2017	CB		A 351 A 351		-0.691		33.604	
ATOM	2020	CG		A 351		0.256 -0.263		32.756	1.00 24.65
ATOM	2021	OD1		A 351		-0.263 -0.740			1.00 24.79
ATOM	2022	ND2	ASN	A 351		-0.222	36.809 38.982	30.730	1.00 25.11
MOTA	2025	С		A 351		0.012	36.151	30.892 34.830	1.00 24.98
ATOM	2026	0		A 351		0.413	34.991	34.802	1.00 24.62
ATOM	2027	N		A 352		0.185	36.928	35.896	1.00 24.84 1.00 24.40
MOTA	2028	CA	PRO .	A 352		0.565	36.314	37.173	1.00 24.40
ATOM	2030	СВ		A 352		0.393	37.454	38.176	1.00 23.99
ATOM	2033	CG		A 352		0.645	38.687	37.385	1.00 23.81
ATOM ATOM	2036	CD	PRO .	A 352		0.145	38.402	35.981	1.00 24.27
ATOM	2039 2040	C		A 352		-0.305	35.097	37.501	1.00 24.08
ATOM	2040	O N		A 352		0.268	34.092	37.910	1.00 24.00
ATOM	2041	CA		A 353 A 353		-1.622	35.160	37.281	1.00 24.06
ATOM	2045	CB		A 353		-2.513	34.032	37.611	1.00 24.11
ATOM	2047	CG1		A 353		-4.027	34.332	37.278	1.00 23.92
ATOM	2050	CD1	ILE A	A 353		-4.660 -3.813	35.407 35.848	38.154	1.00 24.70
ATOM	2054	CG2		A 353		-4.852	33.114	39.332	1.00 28.00
ATOM	2058	С	ILE A	A 353		-2.070	32.773	37.471 36.862	1.00 24.44
ATOM	2059	0		A 353		-1.991	31.685	37.436	1.00 23.97 1.00 23.72
ATOM	2060	N	PHE A	A 354		-1.780	32.923	35.576	1.00 23.72
MOTA	2062	CA	PHE A			-1.463	31.771	34.734	1.00 23.93
ATOM	2064	CB	PHE A			-1.866	32.054	33.272	1.00 23.88
ATOM	2067	CG	PHE A	354		-3.334	31.845	33.018	1.00 24.57
ATOM ATOM	2068 2070		PHE A			-4.239	32.879	33.188	1.00 25.04
ATOM	2070	CE1 CZ				-5.604	32.668	32.990	1.00 25.36
ATOM	2074		PHE F	1 354		-6.070	31.415	32.643	1.00 25.16
ATOM	2076		PHE P			-5.180	30.369	32.490	1.00 25.40
ATOM	2078	C	PHE A			-3.819 -0.001	30.585	32.680	1.00 25.46
ATOM	2079	ō	PHE A			0.270	31.293 30.083	34.882	1.00 23.75
MOTA	2080	N	GLU A			0.917	32.232	34.804 35.123	1.00 23.50
ATOM	2082	CA	GLU A			2.310	31.906	35.396	1.00 23.45 1.00 23.77
ATOM	2084	CB	GLU A	355		3.191	33.166	35.490	1.00 23.77
ATOM	2087	CG	GLU A	355		4.057	33.423	34.254	1.00 25.53
ATOM	2090	CD	GLU A	355		3.785	34.762	33.557	1.00 26.68
ATOM ATOM	2091	OE1	GLU A	355		4.011	34.839	32.322	1.00 23.23
	2092.	OE2	GLU A	355		3.366	35.736	34.252	1.00 28.60
ATOM ATOM	2093 2094	C	GLU A	. 355		2.387	31.116	36.691	1.00 23.77
ATOM	2094		GLU A			2.991	30.045	36.724	1.00 24.34
ATOM	2093	CA	PHE A	356		1.771	31.641	37.751	1.00 23.44
ATOM	2099	CB	PHE A	35 <i>6</i>		1.651	30.923	39.019	1.00 23.10
ATOM	2102		PHE A	356		0.796	31.718	40.027	1.00 22.91
ATOM	2103	CD1	PHE A	356		0.654 1.719	31.026	41.356	1.00 22.02
ATOM	2105	CE1	PHE A	356		1.597	30.958 30.305	42.226	1.00 20.17
MOTA	2107	CZ	PHE A	356	-	0.424	29.682	43.438 43.779	1.00 19.63
ATOM	2109	CE2	PHE A	356		-0.629	29.712	43.779	1.00 19.39 1.00 19.39
								-E. JEU	1.00 13.39

ATOM 2111 CDZ PHE A 3566 -0.520 30.384 41.708 1.00 20.33 C C ATOM 2114 O PHE A 356 1.079 29.496 38.663 1.00 23.18 C C ATOM 2115 N SER A 357 -0.036 29.340 38.663 1.00 23.18 N ATOM 2117 CA SER A 357 -0.036 29.340 38.647 1.00 23.58 N ATOM 2117 CA SER A 357 -0.036 28.032 37.653 1.00 24.48 C ATOM 2119 CB SER A 357 -0.036 28.032 37.653 1.00 24.48 C ATOM 2122 OG SER A 357 -2.976 28.6464 37.937 1.00 24.48 C ATOM 2122 CG SER A 357 -2.976 28.6464 37.937 1.00 24.48 C ATOM 2122 CG SER A 357 -2.976 28.6464 37.937 1.00 24.48 C ATOM 2122 CG SER A 357 -2.976 28.6464 37.937 1.00 24.58 C ATOM 2126 C BRAG A 358 0.917 27.425 36.088 1.00 25.95 N ATOM 2126 C BRAG A 358 0.917 27.425 36.088 1.00 27.12 C C ATOM 2130 CB ARG A 358 1.782 26.483 33.587 1.00 27.12 C C ATOM 2130 CB ARG A 358 1.782 26.483 33.580 1.00 27.12 C C ATOM 2130 CB ARG A 358 3.024 27.913 33.890 1.00 27.12 C C ATOM 2130 CB ARG A 358 3.024 27.913 33.890 1.00 27.12 C C ATOM 2130 CB ARG A 358 3.024 28.226 32.100 1.00 27.12 C C ATOM 2130 N ATOM 2141 CZ ARG A 358 2.012 28.996 31.601 1.00 29.56 C C ATOM 2141 CZ ARG A 358 1.956 30.329 31.508 1.00 23.59 C ATOM 2141 CZ ARG A 358 1.956 30.329 31.508 1.00 33.59 C ATOM 2142 NH1 ARG A 358 2.985 31.099 31.508 1.00 33.59 C ATOM 2148 C ARG A 358 3.004 2.985 31.099 31.508 1.00 33.59 C ATOM 2148 C ARG A 358 3.103 26.224 31.00 1.00 33.59 N ATOM 2148 C ARG A 358 3.103 26.224 31.00 1.00 33.59 N ATOM 2148 C ARG A 358 3.103 26.224 31.00 1.00 33.59 N ATOM 2149 O ARG A 358 3.103 26.224 31.00 1.00 33.55 N ATOM 2149 O ARG A 358 3.103 26.224 31.00 33.59 N ATOM 2149 O ARG A 358 3.103 26.224 31.00 33.59 N ATOM 2150 N ALA A 359 4.855 28.28 1.00 33.99 1.00 27.05 C ATOM 2150 N ALA A 359 4.855 28.28 1.00 33.99 1.00 27.05 C ATOM 2150 C ALA A 359 4.855 28.28 1.00 33.99 1.00 27.05 C ATOM 2150 C ALA A 359 4.855 28.28 1.00 33.99 1.00 27.05 C ATOM 2150 C ALA A 359 4.855 28.28 1.00 33.99 1.00 27.05 C C ATOM 2160 C ALA A 359 4.855 28.28 1.00 33.99 1.00 27.05 C C ATOM 2170 C ALA A 359 4.855 28.28 1.00 33.99 1.00 27.05 C C ATOM 2171 C MATOM 2171 C MATOM 2171 C M												
ATOM 2113 C PHE A 3566 1.079 29.496 38.863 1.00 23.18 C C ATOM 2115 N SER A 357 0.036 29.340 38.047 1.00 23.58 N A ATOM 2117 CA SER A 357 0.036 29.340 38.047 1.00 23.58 N A ATOM 2117 CA SER A 357 0.036 29.340 38.047 1.00 23.58 N A ATOM 2119 CB SER A 357 0.182 28.052 37.079 1.00 24.38 C ATOM 2120 CG SER A 357 0.200 27.009 37.128 1.00 24.38 C ATOM 2121 C SER A 357 0.200 27.009 37.128 1.00 24.55 C ATOM 2124 C SER A 357 0.182 28.634 37.997 1.00 24.48 C ATOM 2125 N SER A 357 0.182 27.843 36.088 1.00 24.55 N ATOM 2126 N ARG A 358 0.912 27.423 36.088 1.00 24.55 N ATOM 2126 CA ARG A 358 1.782 26.851 37.944 1.00 24.55 N ARG A 358 1.782 26.851 37.994 1.00 24.55 N ARG A 358 1.782 26.851 37.994 1.00 24.55 N ARG A 358 1.782 26.851 37.994 1.00 29.56 C ATOM 2133 C B ARG A 358 1.782 26.851 37.994 1.00 29.56 C ATOM 2133 C B ARG A 358 1.782 28.813 3.154 27.913 33.582 1.00 27.12 C C ATOM 2133 C B ARG A 358 3.154 27.913 33.582 1.00 27.12 C C ATOM 2133 C B ARG A 358 2.012 28.996 31.601 1.00 31.01 C C ATOM 2134 C B ARG A 358 2.012 28.996 31.601 1.00 31.01 C C ATOM 2145 NH2 ARG A 358 2.985 31.099 31.601 1.00 33.59 C ATOM 2145 NH2 ARG A 358 2.985 31.099 31.601 1.00 33.59 N ATOM 2145 NH2 ARG A 358 3.757 5.995 31.099 31.002 1.00 33.59 N ATOM 2145 NH2 ARG A 358 3.757 5.995 31.099 31.002 1.00 33.59 N ATOM 2145 NH2 ARG A 358 3.757 5.196 35.886 1.00 27.17 C ATOM 2150 C ATOM 2150 N ALA A 359 4.512 26.874 37.990 1.00 27.10 N ATOM 2150 N ALA A 359 4.512 26.874 37.990 1.00 27.10 N ATOM 2150 N ALA A 359 4.512 26.874 37.990 1.00 27.05 C ATOM 2150 N ALA A 359 4.512 26.874 37.990 1.00 27.05 C ATOM 2150 C ATOM 2150 C A MET A 360 2.880 25.933 39.187 1.00 27.05 C ATOM 2150 C A MET A 360 2.880 25.933 39.187 1.00 27.05 C ATOM 2150 C A MET A 360 2.880 25.933 39.187 1.00 27.05 C ATOM 2160 N MET A 360 2.895 3.097 31.895 1.00 27.05 C ATOM 2170 C A MET A 360 2.895 3.097 31.895 1.00 27.05 C ATOM 2170 C A MET A 360 2.895 3.097 31.895 1.00 27.05 C ATOM 2170 C A MET A 360 2.895 3.097 31.895 1.00 27.75 N ATOM 2170 C A MET A 360 2.895 3.097 31.895 1.00 27.75 N ATO	ATOM	2111	CD2	PHE	Α	356	-0.520	30.384	41.708	1.00 20.33		С
ATOM 2115 N SER A 356	ATOM	2113	С	PHE	Α	356	1.079	29.496	38.863	1.00 23.18		С
ATOM 2115 N SER A 357 - 0.636 29.340 38.047 1.00 23.58 N ATOM 2117 CA SER A 357 - 0.638 28.052 37.853 1.00 24.48 C ATOM 2122 OG SER A 357 - 1.936 28.239 37.079 1.00 24.48 C ATOM 2122 OG SER A 357 - 2.976 28.664 37.937 1.00 26.05 O ATOM 2124 C SER A 357 - 0.200 27.009 37.128 1.00 24.85 C ATOM 2125 O SER A 357 0.102 25.831 37.494 1.00 24.59 O ATOM 2126 N ARG A 358 1.792 26.483 37.494 1.00 24.59 O ATOM 2128 CA RAG A 358 1.792 26.483 35.367 1.00 27.46 C ATOM 2130 CB ARG A 358 1.976 26.867 33.890 1.00 27.46 C ATOM 2133 CG ARG A 358 1.976 26.867 33.890 1.00 27.46 C ATOM 2133 CG ARG A 358 3.024 27.913 33.582 1.00 29.56 C ATOM 2133 CG ARG A 358 3.024 27.913 33.582 1.00 29.56 C ATOM 2134 PARC A 358 3.054 28.226 32.100 1.00 31.01 C ATOM 2134 PARC A 358 2.012 28.996 31.601 1.00 32.44 N ATOM 2141 CZ ARG A 358 2.985 31.089 31.693 11.00 33.59 C ATOM 2148 C ARG A 358 3.103 26.224 39.100 1.00 33.55 N ATOM 2148 C ARG A 358 3.103 26.224 36.112 1.00 27.45 O ATOM 2149 O ARG A 358 3.103 26.224 36.112 1.00 27.45 O ATOM 2150 N ALA A 359 3.460 27.129 37.022 1.00 27.03 C ATOM 2150 N ALA A 359 3.460 27.129 37.022 1.00 27.03 C ATOM 2154 CB ALA A 359 4.853 28.144 38.735 1.00 27.45 O ATOM 2156 C ALA A 359 4.853 28.144 38.735 1.00 27.05 C ATOM 2158 C ALA A 359 4.853 28.144 38.735 1.00 27.05 C ATOM 2158 C ALA A 359 4.853 28.144 38.735 1.00 27.05 C ATOM 2158 C ALA A 359 4.853 28.144 38.735 1.00 27.05 C ATOM 2158 C ALA A 359 4.853 28.144 38.735 1.00 27.05 C ATOM 2158 C ALA A 359 4.853 28.144 38.735 1.00 27.05 C ATOM 2158 C ALA A 359 4.853 28.144 38.735 1.00 27.05 C ATOM 2158 C ALA A 359 4.853 28.144 38.735 1.00 27.05 C ATOM 2158 C ALA A 359 4.853 28.144 38.735 1.00 27.05 C ATOM 2158 C ALA A 359 4.853 28.144 38.735 1.00 27.65 O ATOM 2159 C ALA A 359 4.853 28.144 38.735 1.00 27.65 O ATOM 2170 D MET A 360 1.915 26.352 34.6112 1.00 27.65 O ATOM 2170 C B MET A 360 1.915 26.352 34.6112 1.00 27.65 O ATOM 2170 C B MET A 360 1.915 26.352 34.6112 1.00 27.65 O ATOM 2171 C B MET A 360 1.915 26.352 34.6112 1.00 27.65 O ATOM 2171 C B MET A 360 1.915 26.352									39.485	1.00 22.73		
ATOM 2119 CB SER A 357 -0.638 28.052 37.853 1.00 24.38 C ATOM 2129 CB SER A 357 -1.936 28.239 37.079 1.00 26.05 O ATOM 2124 C SER A 357 -2.976 28.664 37.937 1.00 26.05 O ATOM 2125 O SER A 357 0.200 27.009 37.128 1.00 24.59 O ATOM 2126 N ARG A 358 0.917 27.425 36.088 1.00 25.95 N ATOM 2128 CA ARG A 358 0.917 27.425 36.088 1.00 25.95 N ATOM 2128 CA ARG A 358 1.976 26.867 33.880 1.00 27.12 C ATOM 2130 CB ARG A 358 1.976 26.867 33.880 1.00 27.12 C ATOM 2131 CG ARG A 358 3.024 27.913 33.582 1.00 29.56 C ATOM 2136 CD ARG A 358 3.024 27.913 33.582 1.00 29.56 C ATOM 2139 NE ARG A 358 3.024 27.913 33.582 1.00 29.56 C ATOM 2140 CZ ARG A 358 3.024 27.913 33.582 1.00 33.59 C ATOM 2140 CZ ARG A 358 3.053 31.089 31.508 1.00 33.59 C ATOM 2145 NH2 ARG A 358 0.857 30.907 31.028 1.00 33.59 C ATOM 2142 NH1 ARG A 358 0.857 30.907 31.028 1.00 33.59 C ATOM 2149 O ARG A 358 3.103 26.224 36.112 1.00 27.17 C ATOM 2149 O ARG A 358 3.103 26.224 36.112 1.00 27.17 C ATOM 2150 N ALA A 359 4.512 26.874 37.990 1.00 27.03 C ATOM 2154 CB ALA A 359 4.853 28.144 38.735 1.00 27.05 C ATOM 2158 C ALA A 359 4.853 28.144 38.735 1.00 27.05 C ATOM 2158 C ALA A 359 4.853 28.144 38.735 1.00 27.05 C ATOM 2158 C ALA A 359 4.853 28.144 38.735 1.00 27.05 C ATOM 2158 C A BLA A 359 4.853 28.144 38.735 1.00 27.05 C ATOM 2158 C A BLA A 359 4.853 28.144 38.735 1.00 27.05 C ATOM 2158 C A BLA A 359 4.853 28.144 38.735 1.00 27.05 C ATOM 2158 C A BLA A 359 4.853 28.144 38.735 1.00 27.05 C ATOM 2158 C A BLA A 359 4.853 28.144 38.705 1.00 27.05 C ATOM 2158 C A BLA A 359 4.853 28.144 38.705 1.00 27.05 C ATOM 2158 C A BLA A 359 4.853 28.144 38.705 1.00 27.05 C ATOM 2158 C A BLA A 359 4.075 2.786 39.946 1.00 27.05 C ATOM 2159 O ALA A 359 4.075 2.786 39.947 1.00 27.05 C ATOM 2164 CB BET A 360 0.987 2.384 41.046 1.00 28.08 C ATOM 2170 SD BET A 360 1.991 22.209 37.987 1.00 27.05 C ATOM 2170 D ARG A 361 1.991 22.209 37.987 1.00 27.05 C ATOM 2191 CB ARG A 361 1.991 22.209 37.987 1.00 27.09 C ATOM 2191 CA ARG A 361 1.991 22.209 37.987 1.00 29.94 C ATOM 2210 N ARG A 362 6.686 22.												
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ATOM 2150 N ALA A 359	ATOM	2148	C	ARG	Α	358					•	
ATOM 2152 CA ALA A 359	ATOM	2149	0	ARG	Α	358	3.757	25.196	35.886	$1.00 \cdot 27.45$		0
ATOM 2154 CB ALA A 359	ATOM	2150	N	ALA	Α	359	3.460	27.129	37.022	1.00 27.10		N
ATOM 2158 CB ALA A 359								26.874	37.990	1.00 27.03		С
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ATOM 2208 CG ARG A 362 6.363 23.028 35.349 1.00 31.37 C ATOM 2211 CD ARG A 362 7.317 24.070 34.731 1.00 33.77 C ATOM 2214 NE ARG A 362 6.811 25.447 34.850 1.00 35.63 N ATOM 2216 CZ ARG A 362 7.316 26.403 35.645 1.00 36.81 C ATOM 2217 NH1 ARG A 362 8.367 26.174 36.434 1.00 36.78 N ATOM 2220 NH2 ARG A 362 6.744 27.610 35.655 1.00 37.45 N ATOM 2223 C ARG A 362 6.099 21.209 38.776 1.00 28.50 C ATOM 2224 O ARG A 362 7.013 20.396 38.805 1.00 28.18 O ATOM 2225 N LEU A 363 5.483 21.656 39.872 1.00 27.78 N ATOM 2227 CA LEU A 363 5.747 21.103 41.203 1.00 27.03 C ATOM 2229 CB LEU A 363 5.261 22.052 42.294 1.00 27.15 C ATOM 2234 CD1 LEU A 363 6.317 22.968 42.901 1.00 27.99 C ATOM 2234 CD1 LEU A 363 5.718 23.584 44.144 1.00 28.97	ATOM	2205	CB	ARG	Α	362	6.588	22.765	36.849	1.00 29.94		С
ATOM 2211 CD ARG A 362 7.317 24.070 34.731 1.00 33.77 C ATOM 2214 NE ARG A 362 6.811 25.447 34.850 1.00 35.63 N ATOM 2216 CZ ARG A 362 7.316 26.403 35.645 1.00 36.81 C ATOM 2217 NH1 ARG A 362 8.367 26.174 36.434 1.00 36.78 N ATOM 2220 NH2 ARG A 362 6.744 27.610 35.655 1.00 37.45 N ATOM 2223 C ARG A 362 6.099 21.209 38.776 1.00 28.50 C ATOM 2224 O ARG A 362 7.013 20.396 38.805 1.00 28.18 O ATOM 2225 N LEU A 363 5.483 21.656 39.872 1.00 27.78 N ATOM 2227 CA LEU A 363 5.747 21.103 41.203 1.00 27.03 C ATOM 2229 CB LEU A 363 5.261 22.052 42.294 1.00 27.15 C ATOM 2232 CG LEU A 363 6.317 22.968 42.901 1.00 27.99 C ATOM 2234 CD1 LEU A 363 5.718 23.584 44.144 1.00 28.97 C												
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ATOM 2232 CG LEU A 363 6.317 22.968 42.901 1.00 27.99 C ATOM 2234 CD1 LEU A 363 5.718 23.584 44.144 1.00 28.97 C	MOTA		CB	LEU	A	363						
ATOM 2234 CD1 LEU A 363 5.718 23.584 44.144 1.00 28.97 C	ATOM	2232	CG	LEU	Α	363	6.317	22.968	42.901			
			CD1	LEU	Α	363	5.718	23.584	44.144	1.00 28.97		
							7.639	22.267	43.221	1.00 27.80		C
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ATOM 2250 O GLY A 364 2.925 16.642 42.406 1 ATOM 2251 N LEU A 365 2.074 18.711 42.703 1 ATOM 2253 CA LEU A 365 1.633 18.436 44.064 1 ATOM 2255 CB LEU A 365 1.135 19.691 44.766 1 ATOM 2258 CG LEU A 365 2.081 20.897 44.888 1 ATOM 2260 CD1 LEU A 365 1.566 21.799 46.021 1 ATOM 2264 CD2 LEU A 365 3.522 20.500 45.144 1 ATOM 2268 C LEU A 365 0.519 17.450 43.954 1 ATOM 2269 O LEU A 365 -0.112 17.370 42.916 1 ATOM 2270 N ASP A 366 0.308 16.674 45.004 1 ATOM 2272 CA ASP A 366 -0.795 15.727 45.029 1 ATOM 2274 CB ASP A 366 -0.336 14.301 45.373 1 ATOM 2277 CG ASP A 366 -0.336 14.301 45.373 1 ATOM 2278 OD1 ASP A 366 -0.120 14.985 47.633 1 ATOM 2279 OD2 ASP A 366 -0.120 14.985 47.633 1 ATOM 2280 C ASP A 366 -1.800 16.272 45.999 1 ATOM 2281 O ASP A 366 -1.631 17.377 46.495 1 ATOM 2282 N ASP A 367 -2.845 15.515 46.268 1 ATOM 2284 CA ASP A 367 -3.944 16.038 47.053 1	1.00 24.25 1.00 23.67 1.00 23.27 1.00 23.36 1.00 23.89 1.00 24.37 1.00 23.24 1.00 22.78 1.00 22.78 1.00 22.71 1.00 22.95 1.00 23.14 1.00 23.28 1.00 23.31 1.00 23.31 1.00 22.90 1.00 22.93 1.00 23.08 1.00 23.13
ATOM 2286 CB ASP A 367 -5.094 15.076 46.957 1	1.00 23.79 1.00 26.26
	1.00 26.26
ATOM 2291 OD2 ASP A 367 -6.672 14.327 45.278 1	L.00 29.18
	1.00 22.72
7,000	l.00 23.37 L.00 22.13
	1.00 22.13
ATOM 2298 CB ALA A 368 -1.598 14.398 50.954 1	1.00 21.22
ATOM 2302 C ALA A 368 -1.434 16.880 50.618 1	1.00 22.03
ATOM 2303 O ALA A 368 -1.474 17.563 51.641 1	1.00 22.09
	1.00 21.94
T T C C C C C C C C C C C C C C C C C C	l.00 21.54 L.00 21.65
	1.00 21.05
ATOM 2314 CD GLU A 369 3.307 16.706 47.741 1	1.00 22.31
	1.00 24.33
ATOM 2316 OE2 GLU A 369 2.847 16.614 46.580 1 ATOM 2317 C GLU A 369 -0.484 19.627 49.512 1	1.00 19.72
	l.00 21.69 l.00 21.18
ATOM 2319 N TYR A 370 -1.299 19.767 48.473 1	1.00 22.31
ATOM 2321 CA TYR A 370 -2.213 20.909 48.342 1	1.00 22.52
	1.00 22.75
	1.00 25.00
7.001	l.00 27.31 l.00 27.13
	1.00 28.06
ATOM 2332 OH TYR A 370 -1.540 23.144 42.305 1	1.00 28.74
	L.00 27.58
	L.00 26.97
7 MON	l.00 22.24 l.00 22.15
T T C C C C C C C C C C C C C C C C C C	1.00 22.15
ATOM 2342 CA ALA A 371 -4.424 20.293 51.395 1	1.00 22.38
ATOM 2344 CB ALA A 371 -5.081 18.983 51.810 1	l.00 22.91
	1.00 22.05
ATOM 2349 O ALA A 371 -4.029 21.783 53.221 1	1.00 22.36

MOTA	2350	N	LEU	A	372	-2.423	20.264	52.788	1 00	21.19	
ATOM	2352	CA	LEU	Α	372	-1.548	20.728	53.842			N
MOTA	2354	CB			372	-0.337	19.796		1.00	20.94	C
ATOM	2357	CG			372	-0.525	18.493	54.003	1.00	20.87	C
MOTA	2359				372	0.647		54.795		21.04	C
ATOM	2363				372	-0.718	17.533	54.603		21.62	C
ATOM	2367	C			372		18.807	56.263	1.00	20.65	C
ATOM	2368					-1.076	22.161	53.583		21.01	С
ATOM		0			372	-0.946	22.924	54.517		21.41	0
	2369	N			373	-0.814	22.537	52.330	1.00	20.84	N
ATOM	2371	CA			373	-0.300	23.880	52.027	1.00	20.73	Ċ
ATOM	2373	CB			373	0.039	24.071	50.541	1.00	20.52	Ċ
ATOM	2376	CG			373	1.497	24.213	50.098	1.00	23.13	č
MOTA	2378	CD1	LEU	Α	373	1.572	24.764	48.623	1.00	24.98	C
ATOM	2382				373	2.362	25.070	51.047	1.00	23.54	č
MOTA	2386	С			373	-1.389	24.855	52.418	1.00	20.65	č
MOTA	2387	0			373	-1.126	25.974	52.905	1.00	20.59	ő
ATOM	2388	N			374	-2.622	24.424	52.192	1.00	20.20	Ŋ
ATOM	2390	CA	ILE	Α	374	-3.734	25.283	52.438	1.00	20.59	C
ATOM	2392	CB	ILE	Α	374	-4.983	24.733	51.747		21.07	· C
ATOM	2394	CG1	ILE	A	374	-4.884	25.002	50.231	1 00	21.83	
ATOM	2397	CD1			374	-5.961	24.254	49.403	1 00	21.74	C
MOTA	2401	CG2	IĹE	A	374	-6.275	25.365	52.303	1.00	21.74	C
ATOM	2405	С			374	-3.886	25.464		1.00	20.76	Č
ATOM	2406	Ö			374	-4.139		53.945	1.00	20.73	С
ATOM	2407	N			375	-3.702	26.567	54.424	1.00	20.91	0
ATOM	2409	CA			375	-3.782	24.393	54.697	1.00	20.78	. N
ATOM	2411	CB			375		24.473	56.148	1.00	20.75	C
ATOM	2415	C			375	-3.617	23.067	56.772	1.00	20.83	С
ATOM	2416	Õ				-2.715	25.434	56.682	1.00	20.38	С
ATOM	2417	Ŋ			375	-2.988	26.241	57.574	1.00	20.16	0
ATOM	2419	CA			376	-1.517	25.336	56.113	1.00	19.84	N
ATOM					376	-0.377	26.141	56.543	1.00	20.41	C
	2421	CB			376	0.897	25.644	55.826	1.00	20.33	С
ATOM	2423	CG1	775	A	376	1.370	24.310	56.403	1.00	19.99	C
ATOM	2426	CD1	ILE			2.304	23.568	55.506	1.00	20.71	C
ATOM	2430	CG2	ILE			1.986	26.677	55.945	1.00	20.98	Ċ
ATOM	2434	C			376	-0.600	27.647	56.236	1.00	20.55	Ċ
ATOM	2435	0			376	-0.224	28.543	57.002		19.68	ō
ATOM	2436	N	ASN			-1.225	27.878	55.088		20.81	Ŋ
ATOM	2438	CA	ASN			-1.513	29.200	54.614	1.00	21.04	Ċ
ATOM	2440	CB	ASN			-1.989	29.136	53.153	1.00	21.22	č
ATOM	2443	CG	ASN			-2.338	30.505	52.598		22.27	· c
ATOM	2444		ASN			-3.408	31.081	52.914		24.56	Õ
MOTA	2445		ASN			-1.448	31.043	51.798	1.00	20.25	N
ATOM	2448	С			377 ·	-2.541	29.862	55.512	1.00	20.84	C
MOTA	2449	0	asn	Α	377	-2.489	31.089	55.740		20.38	ő
MOTA	2450	N	ILE	A	378	-3.462	29.053	56.034		21.08	N
MOTA	2452	CA	ILE	Α	378	-4.529	29.562	56.892		21.21	C
ATOM	2454	CB	ILE	Α	378	-5.634	28.531	57.127		21.70	
ATOM	2456	CG1	ILE	Α	378	-6.486	28.327	55.853		20.73	C
ATOM	2459	CD1	ILE	Α	378	-7.264	27.065	55.878	1 00	19.57	C
ATOM	2463	CG2	ILE	Α	378	-6.544	28.984	58.301	1 00	22.97	C
ATOM	2467	С	ILE	Α	378	-3.961	30.003	58.203	1.00	22.9/	C
ATOM	2468	0	ILE			-4.394	31.034	58.713	1.00	21.49	.C
ATOM	2469	N	PHE			-2.974	29.263	58.733	1.00	21.85	0
MOTA	2471	CA	PHE	Ā	379	-2.409	29.556		1.00	21.69	Ŋ
MOTA	2473	CB	PHE			-2.147		60.067	1.00	21.80	C
ATOM	2476	CG	PHE	Δ	379	-2 30E -7.T4\	28.276	60.911		21.76	C
MOTA	2477		PHE	7	370	-3.395 -3.511	27.467	61.220		20.36	C
ATOM	2479	CEI	PHE	7	370	-3.511	26.143	60.786	1.00	18.89	C
ATOM	2481	CZ	PHE			-4.645	25.422	61.064	1.00	19.73	C
ATOM	2483		PHE	ν Δ	370	-5.682	25.999	61.769		18.74	C
	2400	ےننے	- 11E	4	319	- 5.569	27.309	62.205	1.00	19.76	C
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MOTA	2485	CD2 PHE A 379	-4.436	28.028	61.937	1.00 18.90
MOTA	2487	C PHE A 379	-1.139	30.352	59.931	1.00 18.90
ATOM	-2488	O PHE A 379	-0.090	29.996	60.482	1.00 22.46
ATOM	2489	N SER A 380	-1.243	31.458	59.209	1.00 23.76
ATOM	2491	CA SER A 380	-0.127	32.382	59.072	1.00 24.35
ATOM	2493	CB SER A 380	-0.124	33.029	57.692	1.00 24.13
MOTA	2496	OG SER A 380	-0.345	32.064	56.683	1.00 23.05
ATOM	2498	C SER A 380	-0.309	33.418	60.160	1.00 25.51
ATOM	2499	O SER A 380	-1.213	34.264	60.083	1.00 25.31
ATOM	2500	N ALA A 381	0.531	33.340	61.188	1.00 26.69
ATOM	2502	CA ALA A 381	0.394	34.212	62.362	1.00 27.65
ATOM	2504	CB ALA A 381	1.430	33.806	63.463	1.00 27.30
ATOM	2508	C ALA A 381	0.475	35.749	62.051	1.00 28.30
ATOM	2509	O ALA A 381	0.037	36.573	62.889	1.00 28.65
MOTA	. 2510	N ASP A 382	0.996	36.122	60.867	1.00 28.16
ATOM	2512	CA ASP A 382	1.318	37.531	60.572	1.00 28.54
ATOM	2514	CB ASP A 382	2.667	37.575	59.922	1.00 28.78
ATOM	2517	CG ASP A 382	2.584	37.247	58.492	1.00 29.48
ATOM	2518	OD1 ASP A 382	2.104	36.136	58.165	1.00 26.57
ATOM	2519	OD2 ASP A 382	2.930	38.082	57.641	1.00 34.31
MOTA	2520	C ASP A 382	0.313	38.290	59.662	1.00 28.41
ATOM	2521	O ASP A 382	0.647	39.262	58.988	1.00 29.03
ATOM	2522	N ARG A 383	-0.926	37.830	59.647	1.00 27.87
MOTA	2524	CA ARG A 383	-1.977	38.477	58.903	1.00 26.83
ATOM	2526	CB ARG A 383	-3.180	37.536 [.]	58.794	1.00 26.90
ATOM	2529	CG ARG A 383	-2.886	36.172	58.168	1.00 24.71
MOTA	2532	CD ARG A 383	-2.247		56.835	1.00 22.46
ATOM	2535	NE ARG A 383	-2.429	35.078	56.039	1.00 22.63
MOTA	2537	CZ ARG A 383	-2.277	35.011	54.710	1.00 21.78
ATOM	2538	NH1 ARG A 383	-1.911	36.096	54.033	1.00 22.59
ATOM	2541	NH2 ARG A 383	-2.485	33.864	54.054	1.00 20.10
ATOM	2544	C ARG A 383	-2.364	39.711	59.685	1.00 26.73
ATOM	2545	O ARG A 383	-2.115	39.785	60.871	1.00 26.44
ATOM	2546	N PRO A 384	-2.949	40.699	59.029	1.00 26.91
ATOM	2547	CA PRO A 384	-3.443	41.871	59.740	1.00 26.93
ATOM	2549	CB PRO A 384	-4.153	42.678	58.656	1.00 26.92
ATOM	2552	CG PRO A 384	-3.746	42.114	57.368	1.00 26.82
ATOM	2555	CD PRO A 384	-3.150	40.806	57.577	1.00 27.16
ATOM	2558	C PRO A 384	-4.441	41.457	60.795	1.00 26.78
ATOM	2559	O PRO A 384	-5.121	40.441	60.606	1.00 26.63
ATOM ATOM	2560	N ASN A 385	-4.493	42.233	61.874	1.00 26.52
ATOM	2562 2564	CA ASN A 385	-5.530	42.137	62.905	1.00 26.44
ATOM	2567	CB ASN A 385 CG ASN A 385	-6.920	42.470	62.317	1.00 26.43
ATOM	2568		-7.051	43.921	61.879	1.00 25.91
ATOM	2569	OD1 ASN A 385 ND2 ASN A 385		44.828	62.419	1.00 25.48
ATOM	2572	C ASN A 385	-7.913	44.148	60.907	1.00 24.36
ATOM	2573	O ASN A 385	-5.600	40.827	63.702	1.00 26.20
ATOM	2574	N VAL A 386	-6.591	40.589	64.387	1.00 26.57
ATOM	2576	CA VAL A 386	-4.553 -4.521	40.007	63.661	1.00 25.70
ATOM	2578	CB VAL A 386	-3.567	38.785	64.451	1.00 25.44
ATOM	2580	CG1 VAL A 386	-3,157	37.770 36.694	63.833	1.00 25.52
ATOM	2584	CG2 VAL A 386	-3,157 -4.232	36.694 37.137	64.848	1.00 26.16
ATOM	2588	C VAL A 386	-4.232 -4.149	39.078	62.635	1.00 25.40
ATOM	2589	O VAL A 386	-3.061	39.078	65.905 66.197	1.00 25.38
ATOM	2590	N GLN A 387	-5.073	38.791	66.811	1.00 25.07
ATOM	2592	CA GLN A 387	-4.911	39.093	68.229	1.00 25.79
ATOM	2594	CB GLN A 387	-6.295	39.216	68.904	1.00 26.17 1.00 26.48
ATOM	2597	CG GLN A 387	-7.088	40.481	68.475	1.00 28.48
ATOM	2600	CD GLN A 387	-8.426	40.650	69.216	1.00 28.11
MOTA	2601	OE1 GLN A 387	-8.449	40.881	70.443	1.00 31.36
						00 01.90

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ATOM	2602	NE2	GLN	Δ	387	-9.542	40.555	68.471	1.00 32.05	N
ATOM	2605	C	GLN			-4.007	38.089			
								68.953	1.00 25.93	С
ATOM	2606	0	GLN			-3.273	38.469	69.861	1.00 25.80	0
MOTA	2607	N	GLU	A	388	-4.033	36.827	68.517	1.00 25.99	N
ATOM	2609	CA	GLU	Α	388	~3.272	35.729	69.146	1.00 26.03	С
ATOM	2611	СВ	GLU			-4.235	34.652	69.672	1.00 26.23	č
										C
ATOM	2614	CG	GLU			-5.309	35.179	70.609	1.00 27.00	C
MOTA	2617	CD	${\tt GLU}$	A	388	-5.828	34.133	71.581	1.00 28.08	C
ATOM	2618	OE1	GLU	Α	388	-6.191	33.011	71.159	1.00 28.82	0
ATOM	2619		GLU			-5.901	34.448	72.780	1.00 29.76	ŏ
MOTA	2620	С	GLU			-2.269	35.065	68.192	1.00 25.65	C
MOTA	2621	0	GLU	A	388	-2.452	33.901	67.811	1.00 25.73	0
ATOM	2622	N	PRO	Α	389	-1.220	35.789	67.800	1.00 25.08	N
ATOM	2623	CA			389	-0.245	35.269	66.836	1.00 24.68	Ċ
ATOM	2625	CB								
			PRO			0.675	36.475	66.599	1.00 24.77	C
MOTA	2628	CG			389	0.514	37.324	67.759	1.00 24.58	C
ATOM	2631	CD	PRO	Α	389	-0.897	37.167	68.208	1.00 24.91	C
ATOM	2634	С			389	0.559	34.059	67.322	1.00 24.43	Č
ATOM	2635	ō			389	0.934	33.206			
								66.520	1.00 24.28	0
ATOM	2636	N			390	0.835	34.001	68.620	1.00 24.41	N
MOTA	2638	ca	GLY	Α	390	1.469	32.842	69.227	1.00 24.29	C
MOTA	2641	С	GLY	Α	390	0.642	31.565	69.086	1.00 24.54	С
ATOM	2642	Ō			390	1.192	30.507	68.758	1.00 24.52	ŏ
ATOM	2643									
		N			391	-0.674	31.649	69.311	1.00 24.39	N
MOTA	2645	CA			391	-1.537	30.480	69.177	1.00 24.60	C
ATOM	2647	CB	ARG	Α	391	-2.937	30.728	69.739	1.00 24.91	C
ATOM	2650	CG	ARG	Α	391	-2.931	31.219	71.174	1.00 28.18	Ċ
ATOM	2653	CD			391	-4.110	30.745	72.041	1.00 32.93	č
ATOM	2656	NE			391	-5.295	30.355	71.260	1.00 36.71	N
MOTA	2658	cz			391	-5.933	29.178	71.363	1.00 41.04	C
ATOM	2659	NH1	ARG	Α	391	-5.504	28.232	72.215	1.00 43.07	N
ATOM	2662		ARG			-7.015	28.936	70.607	1.00 40.78	N
ATOM	2665	C			391	-1.640	30.049	67.726		
									1.00 24.04	C
MOTA	2666	0			391	-1.743	28.855	67.445	1.00 24.57	Ο,
MOTA	2667	N	VAL	Α	392	-1.610	31.004	66.802	1.00 23.34	N
MOTA	2669	CA	VAL	Α	392	-1.699	30.675	65.385	1.00 22.50	С
ATOM	2671	CB			392	-2.007	31.906	64.539	1.00 22.35	Č
ATOM	2673		VAL			-1.875	31.590	63.059	1.00 21.93	Č
										C
ATOM	2677					-3.413	32.420	64.865	1.00 22.07	С
ATOM	2681	C			392	-0.410	30.014	64.928	1.00 22.29	C
ATOM	2682	0	VAL	Α	392	-0.459	29.037	64.197	1.00 22.06	0
ATOM	2683	N			393	0.741	30.505	65.375	1.00 22.38	N
MOTA	2685	CA			393	2.000	29.902	64.929	1.00 23.18	
										C
ATOM	2687	CB			393	3.233	30.735	65.318	1.00 23.56	C
ATOM	2690	CG			393	4.539	30.125	64.805	1.00 24.92	С
MOTA	2693	CD	GLU	Α	393	5.749	31.038	64.954	1.00 27.27	C
ATOM	2694	OE1			393	6.631	31.069	64.069	1.00 30.57	Ö
ATOM	2695	OE2			393	5.849				
							31.703	65.977	1.00 30.03	0
ATOM	2696	С			393	2.160	28.460	65.429	1.00 23.15	C
MOTA	2697	0	GLU	Α	393	2.738	27.617	64.729	1.00 23.90	0
ATOM	2698	N	ALA	Α	394	1.640	28.177	66.623	1.00 22.56	N
MOTA	2700	CA			394	1.704	26.839	67.180	1.00 21.86	Ċ
ATOM	2702	CB								
					394	1.337	26.847	68.667	1.00 21.66	C
ATOM	2706	C			394	0.794	25.919	66.389	1.00 21.49	C
MOTA	2707	0	ALA	A	394	1.110	24.758	66.206	1.00 20.85	0
ATOM	2708	N			395	-0.344	26.425	65.915	1.00 21.67	N
ATOM	2710	CA			395	-1.212	25.612	65.037	1.00 21.93	
										C
ATOM	2712	CB	T.T.O	A	395	-2.577	26.268	64.833	1.00 22.07	С
MOTA	2715	CG			395	-3.454	26.406	66.085	1.00 23.60	C
MOTA	2717	CD1	LEU	Α	395	-4.753	27.161	65.747	1.00 23.46	С
ATOM	2721		LEU			-3.770	25.073	66.709	1.00 24.27	Ċ

ATOM	2725	С	LEU	Α	395	-0.548	25.304	63.672	1.00	21.30		С
ATOM	2726	0 .			395	-0.693	24.209	63.134		20.06		0
ATOM	2727	N			396	0.208	26.256	63.145		21.27		N
ATOM	2729	CA			396	0.908	26.020	61.893		21.75		C
ATOM	2731	CB			396	1.681	27.246	61.426		21.90		a
ATOM	2734	CG			396	1.919	27.177	59.945		21.80		C
ATOM	2737	CD			396	2.598	28.386	59.409		21.70		C
ATOM	2738	OE1			396	2.052	29.057	58.532		24.11		o
ATOM	2739	NE2			396	3.787	28.674	59.903		19.79		N
ATOM	2742	C			396	1.878	24.871	61.995		21.52		C
ATOM	2743	Ō			396	1.908	23.996	61.128		21.54		Ŏ,
ATOM	2744	N			397	2.641	24.879	63.080		21.23		N.
ATOM	2746	CA			397	3.788	23.997	63.248		21.05		C
ATOM	2748	СВ			397	4.347	24.082	64.680		21.37		č
ATOM	2751	CG			397	5.532	23.159	64.942		24.36		Č
ATOM	2754	CD			397	6.140	23.289	66.353		28.63		č
ATOM	2755	OE1			397	6.069	24.359	66.995		30.75		ŏ
ATOM	2756	NE2			397	6.758	22.198	66.827		29.08		Ŋ
ATOM	2759	C			397	3.538	22.563	62.834		19.99		C
ATOM	2760	0			397	4.297	22.055	62.042		19.80		ŏ
ATOM	2761	N			398	2.528	21.894	63.383		19.52		N
ATOM	2762	CA			398	2.304	20.475	63.055		19.27		Ĉ
ATOM	2764	CB			398	1.093	20.046	63.932		18.97		č
ATOM	2767	CG			398	0.577	21.261	64.580		19.38		č
ATOM	2770	CD			398	1.579	22.373	64.401		19.53		č
ATOM	2773	С			398	2.017	20.226	61.599		18.62		č
ATOM	2774	0			398	2.396	19.166	61.131		18.35		ŏ
ATOM	2775	N	TYR	A	399	1.362	21.149	60.913		18.36		N
ATOM	2777	CA	TYR	Α	399	1.100	20.973	59.479		19.20		Ĉ
ATOM	2779	CB			399	0.005	21.966	59.000		19.17		Č
ATOM	2782	CG	TYR	A	399	-1.355	21.732	59.618		18.45		č
ATOM	2783	CD1	TYR	Α	399	-1.829	22.549	60.636		18.83		Č
ATOM	2785	CE1	TYR			-3.057	22.320	61.232		17.80		Ċ
ATOM	2787	CZ	TYR	Α	399	-3.841	21.272	60.800	1.00	18.18		Č
ATOM	2788	OH	TYR	Α	399	-5.081	21.058	61.386		19.70		Ō
ATOM	2790	CE2	TYR	Α	399	-3.391	20.443	59.796		17.70		Č
ATOM	2792	CD2	TYR	Α	399	-2.153	20.671	59.218	1.00	18.99		Ċ
ATOM	2794	С	TYR	Α	399	2.412	21.095	58.637	1.00	19.46		С
MOTA	2795	0	TYR	Α	399	2.678	20.332	57.704	1.00	19.29		0.
ATOM	2796	N	VAL	A	400	3.248	22.051	58.999	1.00	20.04		N
MOTA	2798	CA	VAL			4.576	22.150	58.401	1.00	20.23		С
MOTA	2800	CB	VAL	Α	400	5.335	23.373	58.923	1.00	19.99		. C
ATOM	2802		VAL			6.693	23.459	58.264	1.00	20.63		C
ATOM	2806	CG2	VAL			4.545	24.631	58.611		18.88		С
MOTA	2810	С	VAL	Α	400	5.356	20.856	58.610		20.10		C
MOTA	2811	0	VAL			5.874	20.301	57.662	1.00	19.94		0
MOTA	2812	N	GLU			5.385	20.383	59.851	1.00	20.78		N
MOTA	2814	CA	GĽU			5.907	19.053	60.237	1.00	21.23		С
MOTA	2816	CB	GLU			5.662	18.795	61.744	1.00	21.63		С
MOTA	2819	CG	GLU			6.803	19.248	62.663		24.26		С
ATOM	2822	CD	GLU			6.540	19.034	64.151		26.48		C
ATOM	2823	OE1	GLU			7.129	19.744	64.999		28.12		0
ATOM .	2824		GLU			5.746	18.144	64.479		29.48		0
ATOM	2825	C	GLU			5.334	17.886	59.407		20.90		С
ATOM	2826	0	GLU			6.073	17.001	58.972		20.52		0
MOTA	2827		ALA			4.023	17.889	59.188		20.76	•	N
ATOM	2829	CA	ALA			3.365	16.817	58.442		20.68		С
MOTA	2831	CB	ALA			1.869	16.916	58.596		20.69		С
ATOM	2835	C	ALA			3.744	16.876	56.978		20.91		C
MOTA	2836	0	ALA			3.914	15.863	56.324		20.41		0
MOTA	2837	N	LEU	A	403	3.896	18.085	56.464	1.00	21.89		N
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ATOM	2839	CA		A 403	4.295	18.257	55.078	1.00 22.32	С
ATOM	2841	CB		A 403	4.143	19.707	54.644	1.00 22.16	c
MOTA	2844	CG		A 403	4.369	19.853	53.144	1.00 21.61	c
MOTA	2846	CD1	LEU Z	A 403	3.587	18.856	52.322		č
MOTA	2850		LEU Z		3.947	21.218	52.799	1.00 22.87	C
MOTA	2854	С		A 403	5.733	17.827	54.892	1.00 22.58	c
MOTA	2855	0	LEU A	A 403	6.058	17.156	53.943	1.00 22.65	0
MOTA	2856	N		A 404	6.578	18.222	55.831	1.00 22.95	N
ATOM	2858	CA		A 404	7.988	17.888	55.804	1.00 23.22	C
MOTA	2860	CB	LEU A	A 404	8.680	18.526	57.003	1.00 23.73	C
MOTA	2863	CG	LEU A	A 404	10.167	18.248	57.246	1.00 25.22	Ç
ATOM	2865		LEU A		10.988	18.355	55.960	1.00 26.22	Č
MOTA	2869		LEU 2		10.661	19.235	58.317	1.00 25.99	č
ATOM	2873	C		A 404	8.186	16.389	55.807	1.00 22.91	č
MOTA	2874	0		A 404	8.788	15.852	54.905	1.00 23.02	ŏ
ATOM	2875	N		A 405	7.683	15.710	56.825	1.00 23.04	N
MOTA	2877	CA		A 405	7.651	14.251	56.821	1.00 23.28	C
MOTA	2879	CB		4 405	6.783	13.714	57.965	1.00 23.37	č
ATOM	2882	OG		A 405	7.253	14.169	59.216	1.00 25.09	. 0
ATOM	2884	C		A 405	7.110	13.688	55.498	1.00 23.06	č
ATOM	2885	0		4 405	7.705	12.763	54.935	1.00 22.72	Õ
ATOM	2886	N		406	5.997	14.249	55.006	1.00 22.61	N
ATOM	2888	CA		4 406	5.317	13.678	53.848	1.00 22.23	Ċ
ATOM	2890	CB		406	3.977	14.351	53.587	1.00 22.04	Č
ATOM	2893	CG		406	3.146	13.720	52.472	1.00 21.34	c
ATOM	2894	CD1			2.099	12.831	52.747	1.00 20.83	Č
ATOM ATOM	2896 2898	CE1			1.331	12.293	51.734	1.00 18.73	C
ATOM		CZ		406		12.628	50.449	1.00 19.07	C
ATOM	2899 2901	OH	TYR A		0.919	12.123	49.410	1.00 19.33	0
ATOM	2901	CE2			2.631	13.484	50.154	1.00 20.65	C
ATOM	2905	CD2 C			. 3.380	14.035	51.155	1.00 20.77	С
ATOM	2906	0	TYR A		6.178	13.752	52.607	1.00 22.21	C
ATOM	2907	N	TYR A		6.249	12.785	51.862	1.00 22.49	0
ATOM	2909	CA			6.837	14.885	52.396	1.00 22.35	N
ATOM	2911	CB	THR A		7.634	15.110	51.190	1.00 22.78	С
ATOM	2913	OG1			7.900	16.620	50.935	1.00 22.45	С
ATOM	2915	CG2			8.488	17.222	52.080	1.00 21.50	0
ATOM	2919	C	THR A		6.593	17.407	50.770	1.00 22.13	C
ATOM	2920	ŏ	THR A		8.932 9.482	14.351 13.979	51.263	1.00 23.93	С
ATOM	2921	N	ARG A		9.405	14.112	50.241	1.00 23.74	0
ATOM	2923	CA	ARG A		10.599	13.294	52.480	1.00 25.87	N
ATOM	2925	СВ	ARG A	408	10.933	13.250	52.710	1.00 27.83	С
ATOM	2928	CG	ARG A		12.394	13.539	54.213 54.562	1.00 28.51	C
MOTA	2931	CD	ARG A		12.882	12.825	55.833	1.00 31.44	C
MOTA	2934	NE	ARG A		14.329	12.997	56.069	1.00 35.67	C
MOTA	2936	CZ	ARG A		14.903	14.064	56.646	1.00 39.51 1.00 41.72	Ŋ
MOTA	2937	NH1	ARG A		14.166	15.110	57.068		C
MOTA	2940		ARG A		16.227	14.090	56.794	1.00 43.38 1.00 40.97	N
MOTA	2943	С	ARG A		10.376	11.867	52.188	1.00 40.97	N
ATOM	2944	0	ARG A		11.152	11.347	51.398	1.00 28.05	C
ATOM	2945	N	ILE A		9.281	11.268	52.642	1.00 28.05	0
ATOM	2947	CA	ILE A		8.872	9.924	52.265	1.00 29.33	N
ATOM	2949	CB	ILE A	409	7.666	9.467	53.175	1.00 30.35	C
MOTA	2951	CG1	ILE A	409	8.186	8.932	54.520	1.00 30.47	c
MOTA	2954		ILE A	409	7.398	9.410	55.744	1.00 31.08	C
ATOM	2958		ILE A	409	6.795	8.411	52.500	1.00 31.67	C
ATOM	2962	C	ILE A	409	8.557	9.837	50.761	1.00 30.37	C
MOTA	2963	0	ILE A	409	9.217	9.071	50.071	1.00 31.14	C
ATOM	2964	N	LYS A	410	7.589	10.624	50.259	1.00 32.00	О И
ATOM	2966	CA	LYS A	410	7.123	10.541	48.850	1.00 32.62	N C
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ATOM	2968	CB	LYS	Α	410	6.127	11.667	48.526	1.00 32.88			~
ATOM	2971	CG	LYS			5.514		47.095	1.00 32.88			C
MOTA	2974	CD	LYS	Α	410	4.444		46.841	1.00 33.17			C
ATOM	2977	CE	LYS			4.438		45.378	1,00 33.49		•	C
ATOM	2980	NZ	LYS			3.211		45.003	1.00 33.29			C
ATOM .	2984	С	LYS			8.273		47.841				N
ATOM	2985	ŏ	LYS			8.434		46.983	1.00 33.12			C
ATOM	2986	N	ARG			9.053			1.00 33.01			0
ATOM	2988	CA	ARG					47.948	1.00 33.44		•	N
ATOM	2990	CB	ARG			10.242		47.136	1.00 33.71			С
ATOM	2993					10.072		46.168	1.00 34.06			С
		CG	ARG			8.655		45.502	1.00 35.84			С
ATOM	2996	CD	ARG			8.454		44.177	1.00 38.37		•	С
ATOM	2999	NE	ARG			7.134		43.528	1.00 40.21			N
ATOM	3001	CZ	ARG			6.559		42.631	1.00 40.45			С
ATOM	3002		ARG			7.155		42.253	1.00 40.72			N
ATOM	3005		ARG			5.373		42.103	1.00 39.93			N
ATOM	3008	C	ARG			11.444		48.097	1.00 33.34	•		С
ATOM	3009	0	ARG			11.789		48.527	1.00 33.43			0
ATOM	3010	N	PRO			12.056		48.466	1.00 33.09			N
ATOM	3011	CA	PRO			13.202		49.385	1.00 33.19			C
ATOM	3013	CB	PRO	Α	412	13.501	9.432	49.658	1.00 33.32		•	Č
ATOM	3016	CG	PRO	Α	412	12.716	8.619	48.647	1.00 33.16		-	Č
ATOM	3019	CD	PRO			11.714	9.535	48.021	1.00 33.23			č
MOTA	3022	С	PRO	Α	412	14.437		48.813	1.00 33.22			č
MOTA	3023	0	PRO	Α	412	15.207		49.575	1.00 33.03			ŏ
MOTA	3024	N	GLN	Α	413	14.607		47.493	1.00 33.27		•	N
MOTA	3026	CA	GLN	Α	413	15.813		46.816	1.00 33.09			C
ATOM	3028	CB	GLN	Α	413	16.368		45,909	1.00 33.13			C
ATOM	3031	CG	GLN			17.255		46.660	1.00 33.32			Č
MOTA	3034	CD	GLN			16.721		46.605	1.00 33.32			C
ATOM	3035	OE1	GLN			15.538		46.850	1.00 33.33			Ö
ATOM	3036		GLN			17.601		46.295	1.00 33.33			
ATOM	3039	С	GLN			15.544		46.054	1.00 32.31			N
ATOM	3040	0	GLN.			16.138		45.005	1.00 32.60			C
ATOM	3041	N	ASP			14.645		46.612	1.00 32.60			0
ATOM	3043	CA	ASP			14.329		46.099		•		N
ATOM	3045	CB	ASP			13.086		45.214	1.00 32.36			C
ATOM	3048	CG	ASP			12,688			1.00 32.54			C
ATOM	3049		ASP			13.470		44.593 44.614	1.00 33.50			C
ATOM	3050	002	ASP	Δ.	414	11.566			1.00 33.77			0
ATOM	3051	C	ASP			14.136		44.048	1.00 34.43	•		0
ATOM	3052	ŏ	ASP			13.025		47.295	1.00 31.92			С
ATOM	3053	N	GLN			15.249		47.774	1.00 31.71			0
ATOM	3055	CA	GLN					47.766	1.00 31.57			N
ATOM	3057	CB	GLN			15.298 16.736	17.798	49.011	1.00 31.04			С
ATOM	3060	CG	GLN					49.508	1.00 31.40			С
ATOM	3063	CD				17.240		50.162	1.00 32.60			C .
ATOM	3064		GLN .	ν Δ	415 415	18.712	16.677	50.389	1.00 33.34			С
ATOM	3065	MED	CIN .	ν 47	415 CTB	19.190	17.423	51.249	1.00 34.47			0
ATOM	3068		GLN .			19.450	15.903	49.607	1.00 34.47			N
ATOM		C	GLN .			14.771	19.203	48.848	1.00 30.16			С
	3069	0	GLN .			14.345	19.817	49.821	1.00 29.98	,		0
MOTA	3070	N	LEU .			14.820	19.722	47.626	1.00 29.18			N
ATOM	3072	CA	LEU .	A	416	14.357	21.082	47.378	1.00 28.42			C ·
ATOM	3074	CB	LEU .	A	416	15.154	21.726	46.236	1.00 28.17			C
ATOM	3077	CG	LEU .	A.	416	16.586	22.199	46.523	1.00 27.41			Č
ATOM	3079	CD1	LEU .	Α	416	16.934	23.258	45.535	1.00 27.48			č
ATOM	3083		LEU .			16.809	22.721	47.931	1.00 26.83			·C
ATOM	3087	C	LEU .			12.850	21.174	47.110	1.00 27.89			č
ATOM	3088	0	LEU .			12.302	22.268	47.082	1.00 27.47			õ
ATOM	3089	N	ARG .			12.191	20.037	46.920	1.00 27.59			N
MOTA	3091	CA	ARG .	Α	417	10.733	20.005	46.738	1.00 27.42			·C
												
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ATOM	3093	CB	ARG	Α	417	10.239	18.536	46.727	1.00 27.	61	~
ATOM	3096	CG			417	8.781	18.282				C
								47.141	1.00 29.		С
MOTA	3099	CD			417	8.283	16.833	46.853	1.00 30.	11	С
ATOM	3102	NE			417	6.873	16.775	46.418	1.00 30.	60	N
ATOM	3104	CZ	ARG	Α	417	6.426	17.204	45.230	1.00 30.	36	N C
MOTA	3105	NH1	ARG	Α	417	7.270	17.711	44.330	1.00 30.		NT NT
ATOM	3108		ARG			5.132	17.105	44.929			N N C
ATOM	3111	C			417				1.00 29.	49	N
						10.026	20.853	47.815	1.00 26.	58	C
ATOM	3112	0			417	9.287	21.793	47.518	1.00 26.	04	0
MOTA	3113	N			418	10.294	20.540	49.068	1.00 26.	04	N
MOTA	3115	CA	PHE	A	418	9.607	21.200	50.171	1.00 25.	76	Ċ
MOTA	3117	CB			418	9.929	20.450	51.455	1.00 26.	07	C
ATOM	3120	CG			418					07	C
						9.361	21.061	52.676	1.00 27.	39	C
ATOM	3121		PHE			8.010	21.270	52.791	1.00 29.	73	С
ATOM	3123		PHE			7.471	21.816	53.944	1.00 30.	72	^и соисссссоисс
MOTA	3125	CZ			418	8.288	22.139	54.973	1.00 31.	57	C
ATOM	3127	CE2	PHE	Α	418	9.656	21.926	54.861	1.00 32.	00	č
ATOM	3129		PHE			10.178	21.391	53.727	1.00 29.	01	Č
ATOM	3131	C			418	9.893				3 T	<u>.</u>
							22.723	50.269	1.00 24.	13	C
ATOM	3132	0			418	8.961	23.522	50.366	1.00 24.	46	0
MOTA	3133	N			419	11.155	23.132	50.252	1.00 23.	55	N
ATOM	3134	CA	PRO	Α	419	11.468	24.556	50.127	1.00 23.	35	C
ATOM	3136	CB	PRO	Α	419	12.977	24.571	49.841	1.00 22.	97	č
ATOM	3139	CG			419	13.483	23.341	50.426	1.00 22.		C
ATOM	3142	CD			419	12.372					
							22.320	50.405	1.00 23.		С
MOTA	3145	C			419	10.708	25.219	48.981	1.00 23.		С
MOTA	3146	0			419	10.217	26.313	49.196	1.00 23.	56	0
ATOM	3147	N	ARG	Α	420	10.601	24.572	47.819	1.00 22.	88	N
ATOM	3149	CA	ARG	Α	420	9.949	25.168	46.648	1.00 22.		. c
MOTA	3151	CB	ARG	Α	420	10.037	24.268	45.413	1.00 23.		Ċ
ATOM	3154	CG			420	11.344	24.320	44.644	1.00 24.		
ATOM	3157	CD			420	11.224					C
							23.727	43.233	1.00 28.		C N C
ATOM	3160	NE			420	12.522	23.475	42.601	1.00 31.		N
ATOM	3162	CZ			420	13.271	22.382	42.803	1.00 34.	58	
MOTA	3163		ARG			12.854	21.407	43.622	1.00 36.	30	N N
MOTA	3166	NH2	ARG	Α	420	14.449	22.251	42.183	1.00 34.	1.2	N
ATOM	3169	С	ARG	Α	420	8.489	25.423	46.947	1.00 22.		Ĉ
ATOM	3170	0			420	7.939	26.438	46.524	1.00 21.		
ATOM	3171	N			421	7.856					0
ATOM	3173						24.504	47.675	1.00 21.		N
		CA			421	6.450	24.666	48.046	1.00 20.		C
ATOM	3175	CB			421	5.937	23.429	48.739	1.00 20.	70	С
ATOM	3178	CG	\mathtt{MET}	A	421	5.634	22.299	47.798	1.00 21.	02	С
ATOM	3181	SD	MET	A	421	5.218	20.786	48.673	1.00 19.		s
ATOM	3182	CE			421	3.780	21.239	49.263	1.00 22.		Č
ATOM	3186	C	MET				25.856	48.955			
ATOM	3187	ŏ									C
	3100				421	5.388	26.687	48.737	1.00 20.		0
ATOM	3188	N	LEU			7.076		49.978	1.00 21.		N
ATOM	3190	CA	LEU			6.961	27.067	50.892	1.00 21.	96	C
ATOM	3192	CB	LEU	Α	422	7.972	26.920	52.048	1.00 22.		č
ATOM	3195	CG	LEU			7.795	25.673	52.935	1.00 24.		č
MOTA	3197		LEU			8.797	25.640	54.084	1.00 25.		<u>.</u>
ATOM	3201		LEU			6.380					C
ATOM	3205						25.531	53.478	1.00 24.		С
		C	LEU			7.137	28.371	50.110	1.00 21.		С
ATOM	3206	0	LEU			6.398	29.310	50.305	1.00 22.		0
ATOM	3207	N	MET			8.078	28.408	49.175	1.00 21.		N
ATOM	3209	CA	MET			8.351	29.627	48.411	1.00 21.		Č
ATOM	3211	CB	MET			9.532	29.401	47.463	1.00 22.		
ATOM	3214	CG	MET			10.871	28.989	48.161			C
ATOM	3217	SD	MET						1.00 25.		C
ATOM	3218					11.977	30:338	48.557	1.00 28.		S
		CE	MET			12.949	30.359	47.182	1.00 28.		С
ATOM	3222	С	MET	A	423	7.152	30.155	47.613	1.00 20.	22	C
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ATOM	3223	0	MET	А	423		7.067	31.319	47 217					
ATOM	3224	N			424				47.317		19.36			0
ATOM	3226	CA			424		6.237	29.275	47.253		19.52			N
ATOM	3228	CB					4.994	29.675	46.610		18.74			С
ATOM	3231		LVO	A	424		4.270	28.457	46.040	1.00	18.77			С
		CG			424		5.017	27.815	44.925	1.00	19.22			Ç
ATOM	3234	CD			424		5.115	28.752	43.726		21.18		•	Ċ
ATOM	3237	CE			424	-	5.767	28.077	42.502		22.94			Č
ATOM	3240	NZ	LYS	Α	424		6.592	29.019	41.689		24.40			
ATOM	3244	С	LYS	Α	424		4.069	30.432	47.551					N
ATOM	3245	0			424		3.326	31.311			17.80			C
ATOM	3246	N			425				47.114		16.79			0
ATOM	3248	CA			425		4.112	30.096	48.834		16.96			N
ATOM	3250		TEO	Α.	425		3.452	30.940	49.842		16.90			С
ATOM		CB			425		3.626	30.388	51.254	1.00	17.39			С
	3253	CG			425		3.104	28.965	51.501	1.00	18.37			С
ATOM	3255	CD1	LEU	Α	425		3.355	28.612	52.939		19.31			, Č
ATOM	3259		LEU	Α	425		1.641	28.857	51.167		19.13			Ċ
ATOM	3263	С	LEU	Α	425		3.920	32.387	49.785		15.75			Ċ.
MOTA	3264	0	LEU	٠A	425		3.143	33.278	49.958		15.73			
ATOM	3265	N			426		5.195	32.600	49.518	1.00	15.21			0
ATOM	3267	CA			426		5.727	33.944			15.73			N
ATOM	3269	CB			426				49.299		15.53	•		·C
ATOM	3271		VAL	7	420		7.229	33.908	48.979		15.20			С
ATOM	3275	CGI	VAL	77	420		7.749	35.282	48.813		15.09			С
ATOM	3273		VAL				7.992	33.187	50.059	1.00	15.76			С
		C			426		5.053	34.578	48.106	1.00	15.52			С
ATOM	3280	0			426		4.640	35.721	48.137	1.00	15.24			ŏ
ATOM	3281	N			427		4.988	33.810	47.030		16.02			Ŋ
ATOM	3283	CA			427		4.421	34.275	45.781		16.14			Ċ
MOTA	3285	CB	SER	Α	427		4.534	33.173	44.720		16.06			
MOTA	3288	OG	SER	Α	427		5.854	33.124	44.199					C.
ATOM	3290	С			427		2.973	34.722			16.93			0
ATOM	3291	Ō			427		2.595		46.000		16.25			С
ATOM	3292	N			428			35.800	45.561		15.92			0
ATOM	3294	CA					2.195	33.908	46.723		16.53			N
ATOM	3296				428		0.787	34.174	46.988		16.61			С
ATOM		CB			428		0.197	33.089	47.851	1.00	16.85			С
	3299	CG			428		0.058	31.775	47.107	1.00	18.38			C
ATOM	3301	CD1	LEU	Α	428		0.363	30.689	48.151	1.00	18.87			Ċ
ATOM	3305		LEU			-:	1.199	31.859	46.064		18.12			č
ATOM	3309	С	LEU	Α	428	(0.523	35.476	47.685		16.85			č
ATOM	3310	0			428	(0.540	36.025	47.493		16.52			Ö
ATOM	3311	N	ARG	A	429		1.479	35.952	48.492		17.60			
MOTA	3313	CA	ARG				1.358	37.220	49.219		17.77	•		N
MOTA	3315	CB			429		2.485	37.435	50.227					C
MOTA	3318	CG			429		2.480	36.588			18.00			C
ATOM	3321	CD			429		1.121		51.439		17.80			С
ATOM	3324	NE						36.479	52.125		19.93			С
ATOM	3326	CZ			429		1.196	35.633	53.321		20.21			N
ATOM	3327		ARG	A	429		1.457	36.083	54.542	1.00	20.19			С
ATOM		NHI	ARG	A	429		1.637	37.391	54.774	1.00	19.26			N
	3330		ARG	A	429		1.524	35.207	55.538		20.42			N
ATOM	3333	C			429		1.436	38.363	48.283		18.10			Ċ
ATOM	3334	0	ARG	Α	429	(0.653	39.273	48.394	1.00				ŏ
MOTA	3335	N			430	2	2.431	38.355	47.409	1.00	18 64			
ATOM	3337	CA	THR	A	430		2.529	39.359	46.354	1.00	10.04	•		. N
ATOM	3339	CB			430		3.808	39.129	45.519					C
MOTA	3341		THR	Α	430		1.904	39.826	46.117	1.00				C
MOTA	3343	CG2	THR	A	430		3.696	39.744		1.00	19.54			0
ATOM	3347	c	чнь	Δ	430		1.282		44.136	1.00				С
ATOM	3348	ŏ			430			39.310	45.455	1.00	19.59			С
ATOM	3349	N					0.760	40.363	45.058	1.00				0
ATOM	3351				431		0.817	38.089	45.161	1.00				N
ATOM		CA	LEU				0.321	37.867	44.279	1.00				C
	3353	CB	LEU				0.503	36.389	44.034	1.00				Č
ATOM	3356	CG	LEU	Α	431	-(0.281	35.784	42.650	1.00				.Č

ATOM	3358	CD1	LEU	Α	431	0.233	36.774	41.638	1 00 22 00	_
MOTA	3362	CD2	LEU	A	431	0.614		42.731	1.00 22.08 1.00 20.80	C
MOTA	3366	С			431	-1.620		44.847	1.00 20.42	C
ATOM	3367	0			431	-2.438		44.096	1.00 20.94	C 0
MOTA	3368	N			432	-1.805		46.164	1.00 20.27	И
ATOM	3370	CA			432	-2.925		46.850	1.00 19.94	C
ATOM	3372	CB			432	-2.829		48.334	1.00 19.85	C
ATOM	3375	OG			432	~3.931		48.922	1.00 20.35	0
ATOM	3377	С			432	-2.994		46.654	1.00 20.43	C
ATOM	3378	0			432	-4.079		46.515	1.00 20.88	ō
ATOM	3379	N			433	-1.842	41.103	46.699	1.00 20.85	Ŋ
ATOM	3381	CA			433	-1.768		46.458	1.00 20.63	C
ATOM	3383	CB			433	-0.381	43.093	46.772	1.00 20.87	Č
ATOM.	3386	OG			433	0.018		48.074	1.00 22.56	ō
ATOM	3388	C			433	-2.096		45.027	1.00 20.21	Ċ
ATOM	3389	0			433	-2.773		44.790	1.00 20.71	ō
ATOM	3390	N			434	-1.616		44.067	1.00 19.98	Ŋ
ATOM	3392	CA			434	-1.991		42.649	1.00 19.65	Ċ
MOTA	3394	CB	VAL	A	434	-1.292		41.698	1.00 19.49	Ċ
ATOM	3396	CGI	VAL	A	434	-1.831		40.295	1.00 19.50	Ċ
ATOM ATOM	3400		VAL			0.201		41.659	1.00 19.36	C
	3404	С			434	-3.505	42.126	42.483	1.00 19.66	С
ATOM	3405 3406	O N			434	-4.109		41.619	1.00 19.42	0
ATOM	3408	N CA			435	-4.115		43.323	1.00 19.83	N
ATOM	3410	CB			435 435	-5.566		43.313	1.00 19.75	С
ATOM	3413	CG			435	-6.013	39.831	44.010	1.00 19.36	C
ATOM	3414		HIS	7	433	-7.491	39.736	44.151	1.00 18.62	C
ATOM	3416		HIS			-8.138	40.014	45.328	1.00 17.77	N
ATOM	3418		HIS			-9.438	39.896	45.151	1.00 18.31	C
ATOM	3420	CD2	HIS	Δ	435	-9.659 -8.456	39.574	43.893	1.00 17.98	N
ATOM	3422	C			435	-6.308	39.478	43.244	1.00 18.86	C
ATOM	3423	ŏ			435	-7.361	42.333 42.676	43.893	1.00 20.14	C
ATOM	3424	N			436	-5.775	42.969	43.389 44.939	1.00 19.98	0
ATOM	3426	CA			436	-6.373	44.199	44.939	1.00 20.92	N
ATOM	3428	СВ			436	-5.640	44.651	46.719	1.00 21.45 1.00 21.08	C
ATOM	3431	OG			436	-6.065	43.887	47.808		C
ATOM	3433	С			436	-6.353	45.347	44.473	1.00 22.20 1.00 22.17	0
ATOM	3434	0			436	-7.250	46.186	44.458	1.00 22.17	C
ATOM	3435	N	GLU	Α	437	-5.301	45.383	43.660	1.00 22.91	0
MOTA	3437	CA	GLU			-5.144	46.372	42.599	1.00 23.43	N C
MOTA	3439	CB	GLU	Α	437	-3.731	46.285	42.035	1.00 23.83	c
MOTA	3442	CG	GLU			-2.668	46.706	43.033	1.00 25.55	Ċ
ATOM	3445	CD	GLU	Α	437	-1.273	46.418	42.533	1.00 28.12	Č
ATOM	3446	OE1	GLU	A	437	-0.338	46.356	43.379	1.00 29.77	ő
ATOM	3447		GLU			-1.118	46.260	41.291	1.00 29.12	ŏ
MOTA	3448	C	GLU			-6.163	46.188	41.473	1.00 23.06	č
ATOM .	3449	0	GLU			-6.631	47.163	40.880	1.00 22.75	Ö
MOTA MOTA	3450	N	GLN			-6.495	44.930	41.192	1.00 22.97	N.
ATOM	3452	CA	GLN			-7.547	44.592	40.243	1.00 22.59	Ċ
ATOM	3454	CB	GLN			-7.583	43.092	39.966	1.00 22.22	Ċ
ATOM	3457 3460	CG CD	GLN			-8.688	42.644	39.030	1.00 21.85	Ċ
ATOM	3461		GLN	A	438	-8.530	43.205	37.648	1.00 21.21	С
ATOM	3462	がたら	GLN GLN	ν Α	438	-7.916 -0.066	42.573	36.787	1.00 20.42	0
ATOM	3465	C				-9.066	44.403	37.429	1.00 20.77	N
ATOM	3466	Ö	GLN GLN			-8.901 -0.667	45.055	40.748	1.00 22.79	С
ATOM	3467	N	VAL			-9.667	45.589	39.959	1.00 23.19	0
ATOM	3469	CA	VAL			-9.195 -10.482	44.876	42.040	1.00 22.62	N
ATOM	3471	CB	VAL				45.306	42.605	1.00 23.09	С
ATOM	3473		VAL	Α	439	-10.666 -11.891	44.801	44.074	1.00 22.84	C
	· -					11.031	45.422	44.727	1.00 22.88	С
							-n			

ATOM 3548 NHI ARG A 443 -16.700 51.632 46.203 1.00 3 ATOM 3551 NH2 ARG A 443 -15.159 50.913 47.756 1.00 3 ATOM 3554 C ARG A 443 -14.196 51.546 39.923 1.00 3 ATOM 3555 O ARG A 443 -15.220 52.224 39.781 1.00 3	30.25 29.93
ATOM 3555 O ARG A 443 -15.220 52.224 39.781 1.00	
ATOM 3556 N LEU A 444 -13.032 51.831 39.334 1.00 3	30.75
ATOM 3560 CB LEU A 444 -11.384 53.066 37.950 1.00	31.09 31.17
ATOM 3563 CG LEU A 444 -10.487 54.098 38.648 1.00 3	
ATOM 3565 CD1 LEU A 444 -10.498 53.963 40.166 1.00 3 ATOM 3569 CD2 LEU A 444 -9.067 53.983 38.114 1.00 3	31.19
ATOM 3573 C LEU A 444 -13.787 52.885 37.151 1.00 3	31.11
ATOM 3574 U LEU A 444 -14.194 53.923 36.611 1.00 3	31.11
ATOM 3575 N GLN A 445 -14.092 51.662 36.709 1.00 3 ATOM 3577 CA GLN A 445 -15.074 51.394 35.648 1.00 3	
ATOM 3579 CB GLN A 445 -14.598 50.220 34.787 1.00 3	31.21 31.41
ATOM 3582 CG GLN A 445 -13.132 50.239 34.392 1.00 3	32.12
ATOM 3506 OP1 CT3 7 115	33.14
ATOM 3587 NE2 GLN A 445 -12.866 49.847 31 994 1 00 3	32.74 32.10
ATOM 3590 C GLN A 445 -16.465 51.032 36.204 1.00 3	31.07
ATOM 3591 O GLN A 445 -17.130 50.134 35.674 1.00 3	31.04
ATOM 3594 CP ASP A 446 -16.901 51.742 37.250 1.00 3	30.89
ATOM 3594 CA ASP A 446 -18.107 51.412 38.047 1.00 3 ATOM 3596 CB ASP A 446 -19.350 52.244 37.606 1.00 3	30.55
ATOM 3599 CG ASP A 446 -19.798 51.973 36.150 1.00 3	
ATOM 3600 ODI ASP A 446 -20.020 52.946 35.373 1.00 3	31.83
ATOM 3601 OD2 ASP A 446 -19.981 50.822 35.695 1.00 3	32.98

ATOM 3603 O ASP A 446	ATOM ATOM	3602 3603		ASP A			-18.421 -19.580	49.913	38.134	1.00 29.9	
ATOM 3606 CA LYS A 447 -17.536 47.638 38.442 1.00 28.56 C ATOM 3611 CG LYS A 447 -16.593 47.087 35.975 1.00 29.64 C ATOM 3611 CG LYS A 447 -16.953 47.087 35.975 1.00 29.64 C ATOM 3611 CG LYS A 447 -17.028 45.745 35.199 1.00 30.85 C ATOM 3617 CE LYS A 447 -17.028 45.745 35.199 1.00 30.85 C ATOM 3620 NZ LYS A 447 -15.821 45.495 34.266 1.00 31.17 C ATOM 3620 NZ LYS A 447 -16.241 45.320 32.835 1.00 31.49 N ATOM 3625 O LYS A 447 -16.241 45.320 32.835 1.00 31.49 N ATOM 3625 O LYS A 447 -16.191 46.639 40.168 1.00 27.76 C ATOM 3626 N LYS A 448 -18.263 47.349 40.749 1.00 26.87 N ATOM 3628 CA LYS A 448 -18.170 47.078 42.194 1.00 26.87 N ATOM 3630 CB LYS A 448 -19.153 47.975 42.975 1.00 26.32 C ATOM 3630 CB LYS A 448 -19.153 47.975 42.975 1.00 26.32 C ATOM 3630 CB LYS A 448 -19.153 47.975 42.976 1.00 27.73 C ATOM 3630 CB LYS A 448 -19.153 47.975 42.976 1.00 27.73 C ATOM 3630 CB LYS A 448 -20.398 51.547 43.657 1.00 28.37 C ATOM 3630 CB LYS A 448 -20.398 51.547 43.657 1.00 28.37 C ATOM 3630 CB LYS A 448 -20.398 51.547 43.657 1.00 28.37 C ATOM 3640 C LYS A 448 -20.398 51.547 43.657 1.00 22.77.3 C ATOM 3642 NZ LYS A 448 -21.696 52.017 44.266 1.00 27.68 N ATOM 3646 C LYS A 448 -18.460 45.613 42.596 1.00 27.68 N ATOM 3647 O LYS A 448 -19.143 49.495 42.564 1.00 25.95 C ATOM 3657 CD LEU A 449 -17.677 45.097 43.519 1.00 23.17 C ATOM 3657 CD LEU A 449 -17.677 45.097 43.519 1.00 23.17 C ATOM 3657 CD LEU A 449 -17.677 45.097 43.519 1.00 23.217 C ATOM 3657 CD LEU A 449 -17.677 45.097 43.519 1.00 23.217 C ATOM 3657 CD LEU A 449 -17.677 45.097 43.519 1.00 23.23 C ATOM 3657 CD LEU A 449 -17.677 45.097 44.266 1.00 27.265 C ATOM 3657 CD LEU A 449 -17.677 45.097 43.519 1.00 23.217 C ATOM 3657 CD LEU A 449 -17.677 45.097 43.519 1.00 23.23 C ATOM 3657 CD LEU A 449 -17.677 45.097 43.519 1.00 23.23 C ATOM 3658 C LEU A 449 -17.677 45.097 43.519 1.00 23.23 C ATOM 3668 CA FRO A 450 -20.010 44.665 45.383 1.00 22.245 C ATOM 3668 CA FRO A 450 -20.010 44.665 45.383 1.00 22.245 C ATOM 3668 CA FRO A 450 -20.010 44.40 41.00 21.290 C ATOM 3680 C PRO A 451								49.514	38.041		
ATOM 3608 CB LYS A 447 -16.598 46.911 37.463 1.00 28.67 C ATOM 3611 CG LYS A 447 -17.028 45.745 35.199 1.00 30.85 C ATOM 3614 CD LYS A 447 -17.028 45.745 35.199 1.00 30.85 C ATOM 3617 CE LYS A 447 -15.821 45.495 34.266 1.00 31.17 C ATOM 3620 NZ LYS A 447 -15.821 45.495 34.266 1.00 31.17 C ATOM 3620 NZ LYS A 447 -15.821 45.495 34.266 1.00 31.17 C ATOM 3620 NZ LYS A 447 -17.625 47.168 39.878 1.00 27.76 C ATOM 3625 O LYS A 447 -17.625 47.168 39.878 1.00 27.90 O ATOM 3626 N LYS A 448 -18.263 47.349 40.749 1.00 26.07 N ATOM 3626 N LYS A 448 -18.263 47.349 40.749 1.00 26.07 N ATOM 3630 CB LYS A 448 -19.153 47.975 42.995 1.00 26.07 C ATOM 3630 CB LYS A 448 -19.153 47.975 42.995 1.00 26.57 N C ATOM 3630 CB LYS A 448 -19.143 49.495 42.654 1.00 26.59 C ATOM 3636 CD LYS A 448 -20.515 50.161 42.976 1.00 26.59 C ATOM 3630 CB LYS A 448 -20.515 50.161 42.976 1.00 27.73 C C ATOM 3630 CB LYS A 448 -20.515 50.161 42.976 1.00 27.73 C C ATOM 3630 CB LYS A 448 -20.596 52.017 44.266 1.00 27.66 N ATOM 3640 C LYS A 448 -20.169 52.017 44.266 1.00 27.66 N ATOM 3640 C LYS A 448 -21.696 52.017 44.266 1.00 27.66 N ATOM 3640 C LYS A 448 -18.460 45.613 42.581 1.00 25.00 C ATOM 3648 N LEU A 449 -17.677 45.097 42.061 1.00 27.39 C ATOM 3650 CA LEU A 449 -17.677 45.097 43.519 1.00 22.93 C ATOM 3650 CA LEU A 449 -17.677 45.097 43.519 1.00 22.93 C ATOM 3650 C LEU A 449 -17.694 43.791 44.105 1.00 22.93 C ATOM 3657 CD1 LEU A 449 -15.452 43.316 44.788 1.00 22.93 C ATOM 3661 CD2 LEU A 449 -19.802 43.712 44.766 1.00 27.88 C ATOM 3661 CD2 LEU A 449 -19.802 43.712 44.766 1.00 22.95 N ATOM 3665 C LEU A 449 -19.802 43.712 44.766 1.00 22.25 C ATOM 3670 C B PRO A 450 -20.578 44.503 44.788 1.00 22.25 C ATOM 3660 C DEU A 449 -19.802 44.978 44.765 1.00 22.25 C ATOM 3660 C DEU A 449 -19.802 44.978 44.766 1.00 22.25 C ATOM 3660 C DEU A 449 -19.802 44.978 44.766 1.00 22.25 C ATOM 3660 C DEU A 449 -19.802 44.914 41.05 1.00 22.15 C ATOM 3680 C DEU A 449 -19.802 44.914 41.05 1.00 22.15 C ATOM 3680 C DEU A 452 -22.164 42.307 44.904 42.904 42.904 42.904 42.904 42.904 4											
ATOM 3611 CG LYS A 447 -16.953 47.087 35.975 1.00 29.64 ATOM 3614 CD LYS A 447 -17.028 45.745 35.199 1.00 30.85 CC ATOM 3620 NZ LYS A 447 -15.821 45.495 34.266 1.00 31.17 CN 3620 NZ LYS A 447 -16.241 45.320 32.835 1.00 31.17 CN 3620 NZ LYS A 447 -17.265 47.168 39.878 1.00 27.76 CN ATOM 3625 C LYS A 447 -16.191 46.639 40.168 1.00 27.76 CN ATOM 3626 N LYS A 448 -18.170 47.078 42.194 1.00 26.87 CN ATOM 3628 CA LYS A 448 -18.170 47.078 42.194 1.00 26.87 CN ATOM 3630 CB LYS A 448 -19.153 47.975 42.975 1.00 22.32 CN ATOM 3630 CB LYS A 448 -19.153 47.975 42.975 1.00 22.32 CN ATOM 3630 CD LYS A 448 -19.153 47.975 42.975 1.00 22.37 CN ATOM 3630 CD LYS A 448 -20.398 51.547 43.557 1.00 22.37 CN ATOM 3636 CD LYS A 448 -20.398 51.547 43.557 1.00 22.37 CN ATOM 3636 CD LYS A 448 -20.398 51.547 43.557 1.00 22.37 CN ATOM 3640 C LYS A 448 -20.498 51.547 43.557 1.00 22.37 CN ATOM 3640 C LYS A 448 -19.194 49.495 51.647 43.557 1.00 22.37 CN ATOM 3640 C LYS A 448 -19.382 44.978 42.564 1.00 27.78 CN ATOM 3641 C LYS A 448 -19.382 44.978 42.564 1.00 27.68 CN ATOM 3646 C LYS A 448 -19.382 44.978 42.265 1.00 27.68 CN ATOM 3647 O LYS A 448 -19.382 44.978 42.265 1.00 23.37 CN ATOM 3650 CR LEU A 449 -17.677 45.097 42.261 1.00 23.37 CN ATOM 3650 CR LEU A 449 -17.677 45.097 42.261 1.00 23.35 CN ATOM 3650 CR LEU A 449 -17.677 45.097 44.105 1.00 23.37 CN ATOM 3651 CD LEU A 449 -17.677 45.097 44.105 1.00 23.37 CN ATOM 3666 C LEU A 449 -17.697 45.997 44.105 1.00 23.37 CN ATOM 3667 CN LEU A 449 -17.697 45.997 44.105 1.00 23.37 CN ATOM 3667 CN LEU A 449 -17.697 45.997 44.105 1.00 23.37 CN ATOM 3667 CN LEU A 449 -17.697 45.997 44.105 1.00 23.37 CN ATOM 3667 CN LEU A 449 -17.697 45.997 44.105 1.00 23.33 CN ATOM 3667 CN LEU A 449 -17.697 45.997 44.105 1.00 22.25 CN ATOM 3668 CN LEU A 449 -17.697 44.697 44.105 1.00 22.25 CN ATOM 3669 CN LEU A 449 -17.697 44.697 44.105 1.00 22.25 CN ATOM 3660 CN LEU A 449 -17.697 44.697 44.105 1.00 22.25 CN ATOM 3660 CN LEU A 449 -17.697 44.697 44.097 40.00 20.22 CN ATOM 3760 CN LEU A 455 -19.897 44.697 44.097 1.00 22.2											7
ATOM 3614 CD LYS A 447 -17.028 45.745 35.199 1.00 30.85 CD ATOM 3617 CE LYS A 447 -15.821 45.495 34.266 1.00 31.17 CD ATOM 3620 NZ LYS A 447 -16.241 45.320 32.835 1.00 31.49 N ATOM 3624 C LYS A 447 -17.626 47.168 39.878 1.00 27.76 CD ATOM 3625 O LYS A 447 -17.626 47.168 39.878 1.00 27.90 CD ATOM 3625 O LYS A 448 -18.263 47.349 40.749 1.00 26.87 N ATOM 3628 CA LYS A 448 -18.170 47.078 42.194 1.00 26.07 N ATOM 3630 CB LYS A 448 -19.153 47.975 42.975 1.00 26.52 CD ATOM 3630 CB LYS A 448 -19.153 47.975 42.975 1.00 26.52 CD ATOM 3630 CB LYS A 448 -19.143 49.495 42.654 1.00 26.59 CD ATOM 3630 CB LYS A 448 -20.515 50.161 42.976 1.00 26.59 CD ATOM 3630 CB LYS A 448 -20.398 51.547 43.657 1.00 26.37 CD ATOM 3630 CB LYS A 448 -20.398 51.547 42.666 1.00 27.36 N ATOM 3630 CB LYS A 448 -20.398 51.547 42.666 1.00 27.36 N ATOM 3646 C LYS A 448 -21.696 52.017 44.266 1.00 27.36 N ATOM 3646 C LYS A 448 -21.696 52.017 44.266 1.00 27.68 N ATOM 3646 C LYS A 448 -19.382 44.978 42.065 1.00 22.93 N ATOM 3650 CR LEU A 449 -17.677 64 50.074 42.566 1.00 22.93 S ATOM 3650 CR LEU A 449 -17.677 64 37.91 44.105 1.00 22.93 C ATOM 3650 CR LEU A 449 -17.677 64 37.91 44.105 1.00 22.93 C ATOM 3650 CR LEU A 449 -17.467 43.791 44.105 1.00 22.93 C ATOM 3657 CD LEU A 449 -15.462 43.791 44.105 1.00 22.93 C ATOM 3657 CD LEU A 449 -15.462 43.791 44.105 1.00 22.93 C ATOM 3657 CD LEU A 449 -19.802 43.712 44.766 1.00 22.88 C ATOM 3667 N PRO A 450 -20.979 43.519 1.00 22.95 C ATOM 3667 C DEU A 449 -19.802 44.978 44.91 41.00 22.295 C ATOM 3667 C DEU A 449 -19.802 44.978 44.91 41.00 22.295 C ATOM 3667 C DEU A 449 -19.802 44.978 44.91 44.105 1.00 22.15 C ATOM 3667 C DEU A 449 -19.802 44.914 41.00 1.00 22.85 C ATOM 3667 C DEU A 449 -19.802 44.918											57 C
ATOM 3617 CE LYS A 447											15 C
ATOM 3620 NZ LYS A 447 -16.241 45.320 32.835 1.00 31.49 ATOM 3625 O LYS A 447 -16.191 46.639 40.168 1.00 27.76 C ATOM 3626 N LYS A 448 -16.191 46.639 40.168 1.00 27.90 O O O O O O O O O O O O O O O O O O O											7 C
ATOM 3624 C LYS A 447 -16.265 47.168 39.878 1.00 27.76 C ATOM 3625 N LYS A 448 -18.263 47.349 40.749 1.00 26.87 N ATOM 3626 N LYS A 448 -18.263 47.349 40.749 1.00 26.87 N ATOM 3628 CA LYS A 448 -18.263 47.349 40.749 1.00 26.87 N ATOM 3630 CB LYS A 448 -19.153 47.975 42.975 1.00 26.57 C ATOM 3630 CB LYS A 448 -19.153 47.975 42.975 1.00 26.59 C ATOM 3633 CG LYS A 448 -19.153 47.975 42.975 1.00 26.59 C ATOM 3636 CD LYS A 448 -20.515 50.161 42.976 1.00 27.73 C ATOM 3639 CE LYS A 448 -20.398 51.547 43.657 1.00 28.37 C ATOM 3639 CE LYS A 448 -21.696 52.017 44.266 1.00 27.68 N ATOM 3646 C LYS A 448 -18.460 45.613 42.891 1.00 25.00 C ATOM 3647 O LYS A 448 -19.382 44.978 42.065 1.00 24.64 ATOM 3647 O LYS A 448 -19.382 44.978 42.065 1.00 24.64 ATOM 3650 CA LEU A 449 -17.677 45.097 43.519 1.00 23.95 N ATOM 3650 CA LEU A 449 -17.677 45.097 43.519 1.00 23.95 N ATOM 3650 CA LEU A 449 -17.677 45.097 43.368 1.00 22.93 C ATOM 3651 CD LEU A 449 -15.452 43.316 44.786 1.00 22.93 C ATOM 3657 CD1 LEU A 449 -15.452 43.316 44.786 1.00 22.93 C ATOM 3657 CD1 LEU A 449 -15.452 43.316 44.786 1.00 22.45 C ATOM 3665 C LEU A 449 -15.452 43.316 44.786 1.00 22.85 C ATOM 3667 N PRO A 450 -19.942 43.712 44.746 1.00 22.85 C ATOM 3667 N PRO A 450 -20.010 42.559 44.593 1.00 22.45 N ATOM 3667 N PRO A 450 -20.010 42.559 44.593 1.00 22.45 N ATOM 3667 N PRO A 450 -20.010 42.559 44.593 1.00 22.22 C ATOM 3673 C C PRO A 450 -20.637 40.367 44.591 1.00 22.22 C ATOM 3670 C B PRO A 450 -20.978 41.443 47.62 1.00 22.22 C ATOM 3670 C B PRO A 450 -20.978 41.445 47.299 1.00 23.33 C C ATOM 3660 C D PRO A 450 -20.978 41.443 47.62 1.00 22.22 C C ATOM 3661 N PRO A 450 -20.978 41.444 41.444 1.00 21.92 C C ATOM 3670 C B PRO A 450 -20.978 41.445 41.00 21.90 22.45 N ATOM 3660 C B PRO A 450 -20.978 41.445 41.00 21.90 22.22 C ATOM 3670 C B PRO A 450 -20.978 41.445 41.00 21.90 21.42 C ATOM 3690 C B PRO A 450 -20.978 41.445 41.00 21.90 21.42 C ATOM 3690 C B PRO A 450 -20.978 41.445 41.00 21.90 21.42 C ATOM 3690 C B PRO A 450 -20.978 41.445 41.00 21.90 21.42 C ATOM 3690 C B PR											
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A104 5757 CB 3EK M 434 -10.135 44.514 49.255 1.00 21.86 C											(1) C
	AION		<u> </u>	JER		404	-10.132	44.214	49.200	1.00 21.8	50 C

ATOM	3740	OG	SER	7	151	-17.652	45 270	40 461				
ATOM							45.370	48.461		20.15		0
	3742	C	SER			-16.764	43.123	50.982	1.00	22.46		С
MOTA	3743	0	SER			-15.807	43.761	51.400	1.00	21.96		. 0
ATOM	3744	N	GLU	Α	455	-17.479	42.312	51.757	1.00	23.59		. N
ATOM	3746	CA	GLU	Α	455	-17.096	42.049	53.141		25.53		Ċ
ATOM	3748	CB	GLU			-17.878	40.852	53.690		25.84		
ATOM	3751	CG	GLU			-19.276						C
ATOM		CD					41.185	54.208		28.77		C
	3754		GLU			-20.256	39.994	54.195		31:25		С
ATOM	3755	OE1	GLU			-21.394	40.150	54.700	1.00	31.67		0
ATOM	3756	OE2				-19.905	38.907	53.671	1.00	33.40		0
MOTA .	3757	С	GLU	Α	455	-15.572	41.767	53.264	1.00	26.68		С
ATOM	3758	0	GLU			-14.908	42.249	54.198		27.07		. 0
MOTA	3759	N	ILE			-15.033	41.007	52.298		27.38		
ATOM	3761	CA	ILE			-13.678	40.479					N
ATOM	3763		ILE					52.359		27.66		C
		CB				-13.569	39.091	51.642		27.97		С
ATOM	3765	CG1				-14.852	38.268	51.657		27.83		C
MOTA	3768	CD1	ILE			-14.735	37.002	50.750	1.00	28.22	٠.	С
ATOM	3772	CG2	ILE	Α	456	-12.479	38.256	52.267	1.00	28.27		С
ATOM	3776	С	ILE	Α	456	-12.617	41.407	51.744	1.00	27.81	•	C
ATOM	3777	0	ILE	Α	456	-11.530	41.525	52.294		27.84		ō
ATOM	3778	N	TRP			-12.916	42.059	50.619		28.14		
ATOM	3780	CA	TRP			-11.868	42.665					N
ATOM	3782							49.790		28.27		C
		CB	TRP			-11.835	41.959	48.438		27.80		С
ATOM	3785	CG	TRP			-11.435	40.531	48.478		26.47		С
MOTA	3786	CD1	TRP			-10.558	39.953	49.332		27.09		С
MOTA	3788	NE1	TRP			-10.425	38.613	49.055	1.00	25.93		N
ATOM	3790	CE2	TRP	A	457	-11.230	38.300	47.999	1.00			C
ATOM	3791	CD2	TRP	Α	457	-11.882	39.486	47.609		25.03		Č
ATOM	3792	CE3	TRP			-12.766	39.430	46.534		24.74		č
ATOM	3794	CZ3	TRP			-12.973	38.214	45.906		24.55		C
ATOM	3796	CH2	TRP									C
						-12.305	37.059	46.315		23.20		С
	3798	CZ2	TRP			-11.438	37.079	47.361		23.28		С
ATOM	3800	C	TRP			-11.866	44.207	49.556	1.00	29.43		С
ATOM	3801	0	TRP	Α	457	-10.929	44.708	48.934	1.00	30.28		0
MOTA	3802	N	ASP	Α	458	-12.832	44.991	50.016	1.00	30.20	•	N
ATOM	3804	CA	ASP	Α	458	-12.664	46.443	49.817	1.00	31.40		С
MOTA	3806	CB	ASP	Α	458	-13.193	46.934	48.434		31.63		č
ATOM	3809	CG	ASP			-14.687	46.637	48.197		31.97		č
ATOM	3810		ASP			-15.402	46.153	49.106		32.78		0
ATOM	3811		ASP			-15.234						0
ATOM							46.859	47.099		32.00		0
	3812	C	ASP			-13.209	47.291	50.953		32.10		С
ATOM	3813	0	ASP			-12.455	47.641	51.862		33.21		0
ATOM	3814		444			-12.903	32.520	41.908	1.00	38.73		0
ATOM	3815		444			-11.714	32.268	41.174	1.00	36.50		S
ATOM	3816	014	444	Α	500	-11.233	30.945	41.500		38.80		ō
MOTA	3817		444			-12.307	32.240	39.501		35.82		Č
ATOM	3818		444			-11.762	31.312	38.546		36.26	•	
ATOM	3820		444			-12.224	31.300	37.209				C
ATOM	3822		444							35.69		C
ATOM	3824					-13.224	32.213	36.827		36.31		С
			444			-13.749	33.139	37.783		36.97		С
ATOM	3826		444			-13.296	33.164	39.129	1.00	35.39	•	. C
ATOM	3828		444			-10.433	33.536	41.205		29.97		N
ATOM .	3829		444			-9.292	33.272	40.226		28.97	•	C
MOTA	3832		444			-7.983	33.620	40.842		29.01		č
ATOM	3833		444			-7.029	33.116	40.045		29.49		-
MOTA	3834		444			-7.818	33.167			28.48		F
ATOM	3835		444			-7.832		42.091				. F
ATOM							34.923	40.956		30.58		F
	3836		444			-10.835	34.982	41.185		24.01		C
ATOM	3837		444			-10.965	35.672	42.397		22.07		· C
ATOM	3839		444			-11.379	37.020	42.458		19.90		С
MOTA	3841	C28	444	Α	500	-11.160	35.725	40.000	1.00	21.92		. С

	0040	~~=		F 0 0	11 501	27 074	40 053	1 00 10 72	•
ATOM	3843		444 A		-11.581	37.074	40.053	1.00 19.73	C
MOTA	3845		444 A		-11.693	37.779	41.289	1.00 17.65	· C
ATOM	3846	C33	444 A	500	-12.190	39.247	41.480	1.00 16.46	С
MOTA	3847	C34	444 A	500	-11.551	40.241	40.502	1.00 16.76	С
ATOM	3848	F36	444 A	500	-11.967	41.510	40.769	1.00 16.31	F
ATOM	3849		444 A		-10.218	40.150	40.593	1.00 17.90	F
MOTA	3850		444 A		-11.819	39.974	39.215	1.00 17.74	· F
ATOM	3851		444 A		-11.993	39.783	42.823	1.00 14.95	0
MOTA	3853		444 A		-13.728	39.235	41.163	1.00 17.17	C
	3854		444 A		-14.006	38.764	39.913	1.00 16.84	F
MOTA			444 A		-14.373	38.394	42.018	1.00 16.20	F
ATOM	3855				-14.397	40.411	41.232	1.00 16.25	F
MOTA	3856		444 A					1.00 10.23	N
MOTA	3857		ALA B		28.704	17.672	55.232		C
MOTA	3859		ALA B		29.588	18.889	55.338	1.00 24.58	C
ATOM	3861		ALA B		31.057	18.475	55.521	1.00 24.07	C
MOTA	3865	С	ALA B		29.402	19.870	54.131	1.00 24.15	C
ATOM	3866	0	ALA B	219	29.068	19.449	53.011	1.00 24.62	0
MOTA	3869	N	LEU B		29.571	21.174	54.377	1.00 23.16	N
MOTA	3871	CA	LEU B	220	29.472	22.199	53.328	1.00 21.99	С
MOTA	3873	CB	LEU B	220	29.618	23.615	53.917	1.00 22.09	С
MOTA	3876	CG	LEU B	220	28.445	24.252	54.663	1.00 22.49	С
ATOM	3878		LEU B		28.806	25.618	55.244	1.00 22.67	С
ATOM	3882		LEU B		27.274	24.393	53.735	1.00 23.37	0000
ATOM	3886		LEU B		30.574	21.976	52.321	1.00 20.67	C
ATOM	3887	Ö	LEU B		31.672	21.583	52.686	1.00 20.63	Ō
			THR B		30.290	22.225	51.056	1.00 19.37	N
MOTA	3888	N	THR B		31.324	22.139	50.027	1.00 18.46	Č
ATOM	3890	CA				21.996	48.660	1.00 18.40	č
ATOM	3892	CB	THR B		30.691			1.00 18.73	ő
MOTA	3894		THR B		29.876	23.146	48.391		Ċ
ATOM	3896	CG2			29.728	20.812	48.623	1.00 18.50	C
ATOM	3900	С	THR B		32.188	23.387	50.055	1.00 17.40	C
MOTA	3901	0	THR B		31.846	24.361	50.699	1.00 16.71	0
MOTA	3902	N	ALA E		33.316	23.363	49.370	1.00 16.94	N
MOTA	3904	CA	ALA E		34.154	24.554	49.299	1.00 17.09	C
MOTA	3906	CB	ALA E		35.444	24.268	48.587	1.00 16.86	С
ATOM	3910	С	ALA E	222	33.393	25.687	48.602	1.00 17.18	С
MOTA	3911	0	ALA E	222	33.418	26.821	49.053	1.00 17.54	0
MOTA	3912	N	ALA E	223	32.686	25.375	47.528	1.00 17.06	N
MOTA	3914	CA	ALA E	223	31.927	26.389	46.822	1.00 17.33	C C
ATOM	3916	CB	ALA E		31.190	25.781	45.660	1.00 17.42	С
ATOM	3920	С	ALA E		30.956	27.083	47.762	1.00 17.63	C
ATOM	3921	ō	ALA E		30.837	28.298	47.750	1.00 17.46	0
ATOM	3922	Ň	GLN E		30.290	26.292	48.594	1.00 18.35	N
ATOM	3924	CA	GLN E		29.242	26.776	49.504	1.00 18.65	C
MOTA	3926	CB	GLN E		28.462	25.594	50.120	1.00 18.47	Č
	3929	CG	GLN E		27.469	24.947	49.161	1.00 18.73	Ċ
MOTA			GLN E		26.721	23.757	49.765	1.00 18.05	Č
MOTA	3932	CD					50.658	1.00 18.57	ő
ATOM	3933		GLN E		27.221	23.088			N
ATOM	3934		GLN E		25.523	23.509	49.278	1.00 15.43	
ATOM	3937	C	GLN E		29.815	27.643	50.613	1.00 18.94	C
MOTA	3938	0	GLN E		29.189	28.628	51.022	1.00 18.39	0
MOTA	3939	N	GLU E		30.991	27.260	51.108	1.00 19.45	N
MOTA	3941	CA	GLU E		31.637	28.043	52.135	1.00 20.29	C
MOTA	3943	CB	GLU E		32.820	27.331	52.758	1.00 20.53	C
MOTA	3946	CG	GLU E		32.388	26.464	53.917	1.00 22.48	C
MOTA	3949	CD	GLU E		33.538	25.795	54.602	1.00 23.89	С
MOTA	3950	OE1			34.681	26.120	54.235	1.00 24.51	0
MOTA	3951	OE2	GLU I	3 225	33.285	24.955	55.503	1.00 26.73	0
ATOM	3952	С	GLU H		32.088	29.334	51.537	1.00 20.43	С
ATOM	3953	0	GLU I		31.942	30.365	52.163	1.00 20.91	0
ATOM	3954	N	LEU I		32.610	29.285	50.323		N
									

ATOM ATOM	3956	CA LEU B 226	33.125	30.479	49.703	1.00 20.90
ATOM	3958 3961	CB LEU B 226 CG LEU B 226	33.872	30.139	48.413	1.00 21.31
ATOM	3963		34.698	31.259	47.755	1.00 21.27
ATOM	3967	CD2 LEU B 226	35.609	31.969	48.733	1.00 21.43
ATOM	3971	C LEU B 226	35.505 31.997	30.650	46.674	1.00 21.43
ATOM	3972	O LEU B 226	32.160	31.465 32.670	49.427	1.00 21.31
ATOM	3973	N MET B 227	30.849	30.956	49.647	1.00 21.15
ATOM	3975	CA MET B 227	29.714	31.813	48.985 48.664	1.00 21.73
ATOM	3977	CB MET B 227	28.634	31.054	47.892	1.00 22.09 1.00 22.54
MOTA	3980	CG MET B 227	27.269	30.909	48.549	1.00 22.54
ATOM	3983	SD MET B 227	26.142	29.773	47.621	1.00 23.79
ATOM	3984	CE MET B 227	27.188	28.736	46.570	1.00 27.48
ATOM	3988	C MET B 227	29.172	32.474		1.00 22.21
MOTA	3989	O MET B 227	28.708	33.588	49.833	1.00 22.95
ATOM	3990	N. ILE B 228	29.266	31.823	51.068	1.00 22.34
MOTA	3992	CA ILE B 228	28.910	32.476	52.333	1.00 22.29
ATOM ATOM	3994	CB ILE B 228	28.737	31.450	53.511	1.00 22.56
ATOM	3996 3999	CG1 ILE B 228 CD1 ILE B 228	27.588	30.472	53.242	1.00 23.49
ATOM	4003	CD1 ILE B 228 CG2 ILE B 228	27.627	29.236	54.122	1.00 23.22
ATOM	4003	C ILE B 228	28.437	32.169	54.846	1.00 22.22
ATOM	4008	O ILE B 228	29.960	33.531	52.699	1.00 21.82
ATOM	4009	N GLN B 229	29.614 31.238	34.617 33.211	53.154	1.00 21.47
. ATOM	4011	CA GLN B 229	32.324	34.134	52.521	1.00 21.59
MOTA	4013	CB GLN B 229	33.685	33.452	52.913 52.905	1.00 21.52
ATOM	4016	CG GLN B 229	33.892	32.331	53.874	1.00 21.14 1.00 21.05
ATOM	4019	CD GLN B 229	35.306	31.720	53.750	1.00 21.05
ATOM	4020	OE1 GLN B 229	36.108	32.126	52.906	1.00 22.52
MOTA	4021	NE2 GLN B 229	35.607	30.755		1.00 23.97
ATOM	4024	C GLN B 229	32.362	35.373	51.986	1.00 21.62
ATOM	4025	O GLN B 229	32.573	36.499	52.457	1.00 20.86
ATOM ATOM	4026	N GLN B 230	32.153	35.142	50.684	1.00 21.69
ATOM	4028 4030	CA GLN B 230 CB GLN B 230	31.980	36.219	49.695	1.00 22.27
ATOM	4030	CB GLN B 230 CG GLN B 230	31.551	35.671	48.304	1.00 22.97
ATOM	4036	CD GLN B 230	32.497 32.631	35.982	47.154	1.00 25.55
ATOM	4037	OE1 GLN B 230	31.764	34.843 33.960	46.076	1.00 29.62
ATOM	4038	NE2 GLN B 230	33.734	34.895	45.941 45.308	1.00 30.03
ATOM	4041	C GLN B 230	30.910	37.187	50.183	1.00 31.02
ATOM	4042	O GLN B 230	31.139	38.390	50.202	1.00 21.84 1.00 21.52
ATOM	4043	N LEU B 231	29.742	36.648	50.550	1.00 21.52
ATOM	4045	CA LEU B 231	28.599	37.461	50.943	1.00 21.25
ATOM	4047	CB LEU B 231	27.354	36.589	51.108	1.00 20.78
ATOM	4050	CG LEU B 231	26.673	36.046	49.837	1.00 20.15
ATOM ATOM	4052 4056	CD1 LEU B 231	25.392	35.295	50.237	1.00 19.85
ATOM	4060	CD2 LEU B 231 C LEU B 231	26.335	37.096	48.808	1.00 19.23
ATOM	4061	O LEU B 231	28.865	38.252	52.232	1.00 21.94
ATOM	4062	N VAL B 232	28.598 29.426	39.448	52.300	1.00 21.80
ATOM	4064	CA VAL B 232	29.628	37.585	53.235	1.00 22.76
ATOM	4066	CB VAL B 232	30.141	38.171 37.090	54.549	1.00 23.21
ATOM	4068	CG1 VAL B 232		37.688	55.513 56.793	1.00 23.16
ATOM	4072	CG2 VAL B 232	29.026	36.110	55.844	1.00 22.84 1.00 22.95
ATOM	4076	C VAL B 232	30.630	39.320	54.456	1.00 22.95
ATOM	4077	O VAL B 232	30.505	40.316	55.165	1.00 25.28
MOTA	4078	N ALA B 233	31.619	39.159	53.572	1.00 25.43
ATOM ATOM	4080	CA ALA B 233	32.706	40.125	53.343	1.00 26.13
ATOM	4082 4086	CB ALA B 233	33.869	39.411	52.651	1.00 26.16
ATOM	4085	C ALA B 233 O ALA B 233	32.307	41.346	52.502	1.00 27.05
	400 I	O ALA B 233	32.789	42.446	52.732	1.00 27.17
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ATOM	4088	N	ALA	В	234	31.4	190	41.118	51.4	82	1.00	28.2	5	NT
ATOM	4090	CA			234	30.8		42.176	50.7			29.2		N
ATOM	4092	CB			234	29.9		41.558	49.6			29.3		C
ATOM	4096	C			234	29.9								C
ATOM	4097				234			43.004	51.6			30.4		C
		0				29.8		44.210	51.5			29.9		0
ATOM	4098	N			235	29.2		42.316	52.5			32.5		N
ATOM	4100	CA			235	28.3		42.928	53.5			34.3		C
ATOM	4102	CB			235	27.8		41.824	54.4			34.8		С
MOTA	4105	CG			235	26.8		42.286	55.4	84	1.00	37.7	5	С
ATOM	4108	CD			235	25.5	66	41.484	55.4			41.2		С
ATOM	4109	OE1			235	25.5	504	40.371	56.0	26	1.00	42.6	5	0
ATOM	4110	NE2	GLN	В	235	24.5	525	42.046	54.8	14	1.00	41.1	2	N
MOTA	4113	С	GLN	В	235	29.1	L45	43.957	54.3	75	1.00	34.9	5	C
MOTA	4114	0	GLN	В	235	28.6	513	45.011	54.6	75	1.00	34.6	5	Ō
MOTA	4115	N			236	30.3		43.615	54.7			36.3		. N
ATOM	4117	CA	LEU	В	236	31.2		44.414	55.5		1.00			C
MOTA	4119	CB			236	32.4		43.559	56.0			37.6		Č
ATOM	4122	CG			236	32.5		43.208	57.4			38.7		c
ATOM	4124		LEU			31.6		41.997	57.8			39.7		C
ATOM	4128		LEU			33.9		42.926	57.7			38.5		
ATOM	4132	C			236	31.8		45.657	54.8					C
ATOM	4133	Ö			236	31.8						38.0		C
ATOM								46.726	55.4	ρŢ	1.00	37.9	2	0
MOTA	4134 4136	N			237	32.2		45.493	53.6			39.3		N
		CA			237	32.7		46.598	52.7			40.7		C
ATOM	4138	CB			237	33.4		46.058	51.5			40.8		С
ATOM	4141	CG			237	34.5		46.964	50.9			41.6		С
ATOM	4144	CD			237	34.9		46.534	49.5			42.4		С
ATOM	4145		GLN			34.1		46.108	48.7			42.2		0
ATOM	4146		GLN			36.3		46.630	49.3			42.5		N
ATOM	4149	С			237	31.6		47.602	52.4			41.8		С
ATOM	4150	0	GLN			31.8		48.807	52.3			41.9		0
ATOM	4151	N	CYS		238	30.4		47.104	52.2		1.00	43.3	2	N
MOTA	4153	CA	CYS		238	29.2	46	47.954	52.0	13	1.00	44.7	3	С
MOTA	4155	CB	CYS			28.0	69	47.119	51.5	13	1.00	44.8	6	С
ATOM	4158	SG	CYS	В	238	28.3	96	46.553	49.8	39		46.8		S
ATOM	4159	С	CYS	В	238	28.8	35	48.702	53.2		1.00	45.6	Ö	S C
ATOM	4160	0	CYS	В	238	28.3	45	49.828	53.1			46.0		ŏ
MOTA	4161	N	ASN	В	239	29.0	45	48.079	54.4			46.6		Ŋ
ATOM	4163	CA	ASN			28.7		48.692	55.7			47.7		Ĉ
ATOM	4165	CB	ASN			28.7		47.600	56.8			47.6		č
ATOM	4168	CG	ASN			28.1		48.099	58.1			48.0		C
ATOM	4169		ASN			26.9		47.868	58.4			49.5		ō
ATOM	4170		ASN			28.9		48.764	58.9			48.1		
ATOM	4173	C	ASN			29.7		49.820	56.1			48.9		N C
ATOM	4174	ŏ	ASN			29.5		50.493				49.7		
ATOM	4175	N	LYS			30.8		50.030	55.3					0
ATOM	4177	CA	LYS			31.7		51.171				50.2		N
ATOM	4179	CB	LYS			33.0			55.6 54.9			51.0		C
ATOM	4182	CG	LYS					50.963			1.00	51.1	4	C
ATOM	4185	CD	LYS			33.8		49.716	55.3			51.19		С
ATOM						34.9		49.321	54.3			51.4		С
	4188	CE	LYS			35.6		48.003	54.7			51.3		С
MOTA	4191	NZ	LYS			37.0		48.229	55.1			51.8		N
ATOM	4195	C	LYS			31.0		52.504	55.1			51.98		С
MOTA	4196		LYS			31.4		53.570	55.6			51.78		0
ATOM	4197		ARG			30.1		52.424	54.1			53.10		N
ATOM	4199		ARG			29.2		53.500	53.8		1.00	54.14	4	С
ATOM	4201		ARG			28.2		53.042	52.8		1.00	54.42	2	С
ATOM	4204		ARG			27.4		54.178	52.1		1.00	55.90	0	С
ATOM	4207		ARG			28.2	45	54.961	51.0	73		57.98		Č
MOTA	4210		ARG			27.4	27	55.921	50.3			59.30		N
MOTA	4212	CZ	ARG	В	241	27.6		57.250	50.2			60.60		Ċ
								·····			·			

ATOM	4213		ARG				8.598	57.855	50.950	1.00	60.35				N
ATOM	4216		ARG				6.784	57.993	49.545		61.55				N
ATOM	4219	С			241		8.423	53.954	55.135	1.00	54.58				С
ATOM	4220	0			241		8.148	55.141	55.293	100	54.62		•		0
MOTA	4221	N	SER				8.051	52.997	55.996	1.00	55.06			•	N
ATOM	4223	CA	SER				27.372	53.273	57.277	1.00	55.17				С
ATOM	4225	CB			242		6.892	51.980	57.957		55.30				С
MOTA	4228	OG			242		25.473	51.941	58.068	1.00	56.31				0
ATOM	4230	С			242		8.211	54.049	58.288	1.00	55.24				C.
MOTA	4231	0			242		7.705	54.999	58.884	1.00	55.71				0
MOTA	4232	N			243	2	9.463	53.655	58.521	1.00	55.12				N
MOTA	4234	CA	PHE	В	243	3	30.259	54.359	59.534		55.08				
ATOM	4236	CB			243		31.418	53.497	60.052	1.00	55.12			•	C
ATOM	4239	CG			243	3	31.996	53.987	61.364	1.00	56.27	•			С
MOTA	4240		PHE				31.181	54.146	62.493	1.00	57.56				$\begin{smallmatrix} C & C \\ C & C \end{smallmatrix}$
ATOM	4242	CE1	PHE				31.719	54.624	63.733	1.00	57.97				С
MOTA	4244	CZ			243	3	3.083	54.941	63.831	1.00	57.54				С
ATOM	4246		PHE				3.905	54.785	62.705	1.00	57.44				С
ATOM .	4248	CD2	PHE				3.356	54.313	61.473	1.00	57.17				С
MOTA	4250	С			243		30.746	55.749	59.061	1.00	54.73	•			С
MOTA	4251	0			243	3	0.825	56.679	59.865	1.00	55.07		•		0
MOTA	4252	N	SER	В	244	3	31.027	55.904	57.767	1.00	54.22			٠.	N
ATOM	4254	CA	SER	В	244	3	31.487	57.191	57.211	1.00	53.75				С
ATOM	4256	CB			244	3	2.064	57.008	55.793		53.77				C
ATOM	4259	OG	SER	В	244	3	31.290	57.702	54.822	1.00	53.38				0
ATOM	4261	С	SER		244	3	10.385	58.262	57.176	1.00	53.38				C
ATOM	4262	0	SER	В	244	3	0.627	59.418	57.535		53.00				O
ATOM	4263	N	ASP	В	245	2	9.188	57.855	56.732		53.11				N
ATOM	4265	CA	ASP	В	245	2	8.019	58.748	56.567		52.82				С
ATOM	4267	·CB			245	2	7.074	58.230	55.443	1.00	52.94				Č
ATOM	4270	CG	ASP	В	245		7.614	58.476	54.002		53.62				Ċ
ATOM	4271	OD1	ASP	В	245	2	8.098	59.587	53.682		55.16				ō
ATOM	4272	OD2	ASP	В	245	2	7.548	57.610	53.105		52.73				ō
ATOM	4273	С	ASP	В	245	2	7.179	58.946	57.855		52.05				Č
ATOM	4274	0	ASP	В	245		6.117	59.572	57.805		52.02				ō
ATOM	4275	N	GLN	В	246		7.652	58.422	58.988		51.15				N
ATOM	4277	CA	GLN	В	246		6.926	58.504	60.267		50.54				c
ATOM	4279	CB	GLN	В	246	2	7.492	57.455	61.269		50.73				č
ATOM	4282	CG	GLN	В	246		7.233	57.722	62.765		51.69				č
MOTA	4285	CD	GLN				7.645	56.547	63.672		53.24				Č
ATOM	4286	OE1	GLN	В	246	2	8.817	56.436	64.073		54.34				ō
MOTA	4287	NE2	GLN	В	246	2	6.679	55.685	64.010		53.27				N
ATOM	4290	С	GLN	В	246		6.862	59.957	60.851		49.48				c
MOTA	4291	0	GLN	В	246		5.763	60.470	61.101		49.52				ŏ
MOTA	4292	N	PRO	В	247	2	8.000	60.615	61.094	1.00	47.95				N
MOTA	4293	CA	PRO	В	247		7.991	62.064	61.394		46.90				C.
ATOM	4295	CB	PRO	В	247	2	9.467	62.362	61.741		47.00		•		Č
MOTA	4298	CG	PRO	В	247	3	0.042	61.036	62.140		47.48				Č
ATOM	4301	CD	PRO	В	247	2	9.359	60.046	61.223		47.92				Č
MOTA	4304	C	PRO	В	247	2	7.476	63.045	60.296		45.54	•			Č
MOTA	4305	0	PRO			2	7.150	64.182	60.635		45.34				ŏ
ATOM	4306	N	LŸS	В	248		7.396	62.644	59.032		43.94				N
ATOM	4308	CA	LYS				6.860	63.543	57.990		42.75				Ĉ
ATOM	4310	CB	LYS				7.141	62.964	56.593		43.13				č
MOTA	4313	CG	LYS	В	248		8.639	62.768	56.264		44.00				č
MOTA	4316	CD	LYS				8.852	62.542	54.752		44.70				č
ATOM	4319	CE	LYS	В	248		0.091	61.695	54.450		44.85				c
MOTA	4322	NZ	LYS				0.151	61.296	53.010		44.31		•		N
ATOM	4326	C.	LYS				5.340	63.827	58.140		40.90				C
MOTA	4327	0	LYS				4.845	64.869	57.686		40.99				ö
ATOM	4328	N	VAL				4.636	62.901	58.797		38.30				N
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ATOM ATOM	4330 4332	СВ	VAL B	249	23.173 22.743	62.868 61.474	58.906 59.484 59.906	1.00 36.28 1.00 36.31 1.00 36.23	CCC
ATOM ATOM	4334 4338		VAL B		21.274 23.031	61.419 60.379	58.478	1.00 36.23	C
ATOM	4342	C	VAL B		22.576	63.984	59.767	1.00 34.54	Č
ATOM	4343	0	VAL B	249	23.245	64.523	60.642	1.00 34.40	0
ATOM	4344	N	THR B		21.311	64.318	59.495	1.00 32.57	N
ATOM	4346	CA	THR B		20.513	65.209	60.341 59.743	1.00 31.14 1.00 31.02	C C
ATOM ATOM	4348 4350	CB OG1	THR E		19.124 19.234	65.442 66.102	58.486	1.00 31.02	Ö
ATOM	4352	CG2	THR E		18.310	66.419	60.602	1.00 31.00	С
MOTA	4356	C	THR E		20.326	64.594	61.720	1.00 29.95	С
ATOM	4357	0	THR E		19.559	63.644	61.896	1.00 29.50	0
ATOM	4358	N	PRO E		20.989	65.144 64.526	62.720 64.051	1.00 28.66 1.00 27.87	N C
ATOM ATOM	4359 4361	CA CB	PRO E		20.950 21.874	65.426	64.886	1.00 27.87	C
ATOM	4361	CG	PRO E		22.682	66.181	63.888	1.00 28.33	Č
MOTA	4367	CD	PRO E		21.791	66.380	62.703	1.00 28.63	С
MOTA	4370	С	PRO E	3 251	19.522	64.463	64.632	1.00 26.71	C
MOTA	4371	0		3 251	18.680	65.312	64.335	1.00 26.64	0
ATOM	4372	N		3 252	19.263 17.951	63.438 63.234	65.437 66.046	1.00 25.29 1.00 23.97	N C
ATOM ATOM	4374 4376	CA CB		3 252 3 252	17.937	61.878	66.763	1.00 23.92	Č
ATOM	4379	CG		3 252	16.605	61.421	67.350	1.00 22.64	С
ATOM	4380	CD1	TRP I	B 252	16.189	61.540	68.656	1.00 21.21	С
MOTA	4382	NE1		B 252	14.938	60.987	68.802	1.00 20.46	N
ATOM	4384	CE2		B 252	14.520	60.492 60.747	67.595 66.655	1.00 18.51 1.00 19.31	C
ATOM ATOM	4385 4386	CD2 CE3		B 252 B 252	15.550 15.353	60.747	65.323	1.00 19.31	C
ATOM	4388	CZ3		B 252	14.164	59.740	64.978	1.00 16.72	С
ATOM	4390	CH2		B 252	13.156	59.497	65.934	1.00 16.41	С
ATOM	4392	CZ2		В 252	13.310	59.868	67.243	1.00 17.52	C
MOTA	4394	C		B 252	17.730	64.380	67.013	1.00 22.87	C 0
ATOM ATOM	4395 4396	O N		B 252 B 253	18.638 16.565	64.692 65.033	67.751 66.983	1.00 22.53 1.00 22.23	Ŋ
ATOM	4397	CA		B 253	16.339	66.235	67.787	1.00 22.20	Ċ
ATOM	4399	СВ		B 253	15.033	66.803	67.198	1.00 21.68	С
ATOM	4402	CG		B 253	14.333	65.675	66.691	1.00 21.51	C
MOTA	4405	CD		B 253	15.376	64.726	66.170	1.00 22.10	C C
ATOM ATOM	4408 4409	С 0		B 253 B 253	16.217 15.242	66.014 65.429	69.315 69.778	1.00 22.42 1.00 22.73	0
ATOM	4410	N		B 254	17.195	66.511	70.065	1.00 22.70	Й
ATOM	4412	CA	LEU		17.164	66.496	71.516	1.00 23.12	С
ATOM	4414	CB		B 254	18.599	66.485	72.041	1.00 23.09	C
ATOM	4417	CG		B 254	19.552	65.465	71.399	1.00 23.03	C
ATOM ATOM	4419 4423		LEU		20.903 18.948	65.473 64.066	72.136 71.382	1.00 23.36 1.00 21.36	C
ATOM	4427	C		B 254	16.436		72.041	1.00 23.58	č
ATOM	4428	Ö		B 254	16.501	68.767	71.422	1.00 23.69	0
MOTA	4429	N		B 255	15.724	67.619	73.156	1.00 24.43	Ŋ
ATOM	4431	CA		B 255	15.173		73.850	1.00 25.36	C
MOTA MOTA	4434 4435	C O		B 255 B 255	13.829 13.453		73.397 73.837	1.00 26.48 1.00 26.18	0
MOTA	4436	N		B 256	13.094	68.573	72.572	1.00 28.31	N
ATOM	4438	CA		B 256	11.885		71.870	1.00 29.71	С
MOTA	4440	CB	ALA	B 256	11.624	68.177	70.650	1.00 29.61	C
MOTA	4444	C		B 256	10.597		72.719	1.00 31.22	C
MOTA ATOM	4445 4446	O N		B 256 B 257	10.383 9.733		73.582 72.433	1.00 31.35 1.00 33.04	O N
ATOM	4448	CA		B 257	8.375		73.051	1.00 34.35	C
MOTA	4450	CB		B 257	7.821		73.009	1.00 34.35	С
									

ATOM	·4453	CG	ASP	в :	257	8.3	880	72.813	73.128	1 00	34.61	
ATOM	4454	OD1	ASP				055	73.350	74.248		34.01	
MOTA	4455		ASP				524	73.240	72.141		35.06	
MOTA	4456	С	ASP				361	69.306	72.349		35.52	
ATOM	4457	0	ASP.				794	68.366	71.645		36.06	
ATOM	4458	N	PRO				037	69.522	72.491			
ATOM	4459	CA	PRO				056	68.687	71.765		36.59	
ATOM	4461	СВ	PRO				853	69.637			37.00	
ATOM	4464	CG	PRO				865		71.622		37.07	
ATOM	4467	CD	PRO				332	70.424 70.530	72.945		37.12	
ATOM	4470	C	PRO				507		73.324		36.62	
ATOM	4471	õ	PRO					68.146	70.392		37.02	
ATOM	4472	N	ALA				933		69.394		37.05	
ATOM	4474	CA	ALA					71.527			23.53	
ATOM	4476	CB	ALA				885	70.485	64.784		23.40	
ATOM	4480	C.	ALA				724	70.738	63.850		23.75	
ATOM	4481	0	ALA				209	70.402	63.997		23.27	
ATOM	4482	N	ASP				431	69.440	63.219	1.00	22.81	
ATOM	4484	CA	ASP				056	71.421	64.200		22.75	
ATOM	4486	CB	ASP				483	71.415.	63.837	1.00	22.57	
ATOM	4489	CG	ASP	ם ס	202 262		210	72.484	64.669		22.41	
ATOM						11.		73.132	63.935		22.49	
ATOM	4490		ASP			11.		72.476	63.082	1.00	22.83	
ATOM	4491		ASP				726	74.303	64.160	1.00	21.66	
ATOM	4492	C .	ASP			10.		70.036	64.021	1.00	22.69	•
	4493	0	ASP				640	69.427	63.040		22.60	
ATOM	4494	N	ALA				259		65.265		22.63	
ATOM	4496	CA	ALA				984	68.300	65.589		22.14	
ATOM	4498	CB	ALA	B	263		027	68.104	67.078		22.25	
ATOM	4502	C	ALA			10.		67.041	64.923		22.12	
ATOM	4503	0	ALA			11.:		66.073	64.671		21.57	•
ATOM	4504	N	ARG				124	67.053	64.647		22.30	
ATOM	4506	CA	ARG				460	65.917	63.998		22.71	
ATOM	4508	CB	ARG				940	66.161	63.951		23.47	
ATOM	4511	CG	ARG				98	65.046	64.548		26.53	
ATOM	4514	CD	ARG				510	63.988	63.526	1.00	30.96	
ATOM .	4517	NE	ARG				350	62.928	64.200	1.00	35.24	
ATOM	4519	CZ	ARG				593	63.049	64.663		38.99	
ATOM	4520	NH1	ARG	B 2	264		910	64.189	64.501		40.61	
ATOM	4523		ARG				006	62.017	65.285		39.67	
ATOM	4526	C	ARG				018	65.681	62.576	1.00	21.70	
ATOM	4527	0	ARG		264		L76	64.540	62.145	1.00	21.68	
ATOM	4528	N	GLN		265		293	66.789	61.879	1.00	20.57	
ATOM	4530	CA	GLN				390	66.828	60.544	1.00	19.35	
ATOM	4532	CB	GLN		265		780	68.263	59.958	1.00	19.49	
MOTA	4535	CG	GLN				99	68.373	58.576	1.00	21.01	
ATOM	4538	CD	GLN				776	67.519	57.471	1.00	21.91	
ATOM	4539		GLN				L58	66.607	56.923	1.00	21.19	
MOTA	4540	NE2				11.0	38	67.828	57.154	1.00	23.36	
ATOM	4543	C	GLN			11.3		66.407	60.552	1.00	18.25	
ATOM	4544	0	GLN			11.8	333	65.794	59.599	1.00	17.63	
ATOM	4545	N_	GLN			12.0	086	66.775	61.607	1.00	17.43	
ATOM	4547	CA	GLN			13.5			61.670	1.00	16.68	
MOTA	4549	CB	GLN			14.2		67.367	62.778		16.42	
ATOM	4552	CG	GLN			15.7		67.521	62.603		17.00	
ATOM	4555	CD	GLN.	B 2	266	16.4		68.236	63.777	1.00	17.14	
ATOM	4556		GLN			16.0	95	69.363	64.093		18.61	
ATOM	4557	NE2	GLN			17.4	122	67.586	64.402		15.38	
MOTA	4560	С	GLN			13.7	791	65.019	61.862		15.63	
ATOM	4561	0	GLN			14.6	573	64.433	61.224		14.42	
MOTA	4562	N	ARG			13.0	004	64.420	62.753		15.02	
ATOM	4564	CA	ARG	B 2	267	13.0	29	62.981	62.986		14.67	
•								•				

ATOM	4566	СВ	ARG	Ð	267	12.005	62.592	64.037	1.00 14.62	С
MOTA	4569	CG	ARG		267	12.304	63.045	65.428	1.00 15.59	
										C
ATOM	4572	CD	ARG		267	11.209	62.632	66.388	1.00 17.40	C
MOTA	4575	NE	ARG		267	11.338	63.258	67.702	1.00 18.98	. И
ATOM	4577	CZ	ARG			10.404	63.991	68.299	1.00 20.96	С
ATOM	4578		ARG			9.240	64.242	67.704	1.00 22.06	N
ATOM	4581	NH2	ARG	В	267	10.641	64.494	69.505	1.00 21.26	N
ATOM	4584	С	ARG	В	267	12.666	62.248	61.711	1.00 14.38	С
ATOM	4585	0	ARG			13.279	61.232	61.376	1.00 14.37	0
ATOM	4586	N	PHE			11.640	62.741	61.016	1.00 13.88	N
ATOM	4588	CA	PHE			11.271	62.153	59.748	1.00 13.74	C
ATOM	4590	СВ	PHE			9.980	62.728	59.155	1.00 13.86	č
ATOM	4593	CG	PHE		268	9.592	62.052	57.858	1.00 15.00	Č
MOTA	4594		PHE	_		9.120	60.735	57.866	1.00 16.22	C
ATOM	4596		PHE			8.814	60.083	56.684	1.00 10.22	C
						8.991	60.739	55.470	1.00 17.48	C
ATOM	4598	CZ	PHE		268					C
MOTA	4600		PHE			9.475	62.059	55.443	1.00 17.57	C
ATOM	4602		PHE			9.781	62.700	56.626	1.00 17.00	C
MOTA	4604	C	PHE			12.427	62.256	58.743	1.00 12.92	C
ATOM	4605	0	PHE			12.834	61.260	58.184	1.00 13.32	0
ATOM	4606	N	ALA			12.946	63.450	58.522	1.00 12.15	'N
ATOM	4608	CA	ALA		269	14.138	63.637	57.709	1.00 11.93	С
ATOM	4610	CB	ALA	В	269	14.626	65.064	57.821	1.00 11.98	С
ATOM	4614	С	ALA	В	269	15.253	62.681	58.096	1.00 11.93	С
ATOM	4615	0	ALA			15.867	62.076	57.228	1.00 11.90	0
MOTA	4616	N	HIS			15.491	62.520	59.396	1.00 12.21	N
ATOM	4618	CA	HIS			16.558	61.652	59.892	1.00 12.77	C
MOTA	4620	CB	HIS		270	16.608	61.703	61.422	1.00 13.05	Ċ
ATOM	4623	CG	HIS			17.682	60.857	62.044	1.00 13.82	č
ATOM	4624		HIS			18.985	61.290	62.193	1.00 14.63	N
ATOM	4626		HIS			19.693	60.351	62.798	1.00 14.72	C
ATOM	4628		HIS			18.894	59.333	63.065	1.00 14.72	N
			HIS			17.628	59.629	62.614	1.00 14.04	
MOTA	4630				270	16.372		59.402		C
MOTA	4632	C					60.219	58.948	1.00 13.02	C
ATOM	4633	0			270	17.323	59.605		1.00 13.03	0
ATOM	4634	N			271	15.135	59.728	59.477	1.00 13.50	N
ATOM	4636	CA			271	14.764	58.374	59.086	1.00 14.17	C
ATOM	4638	CB			271	13.295	58.092	59.458	1.00 14.50	C
ATOM	4641	CG			271	13.095	57.360	60.784	1.00 15.95	С
MOTA	4642		PHE			13.797	57.709	61.926	1.00 17.54	C
MOTA	4644		PHE			13.596	57.045	63.129	1.00 18.13	С
ATOM	4646	CZ			271	12.689	56.049	63.224	1.00 19.25	С
MOTA	4648		PHE			11.964	55.678	62.103	1.00 20.36	С
MOTA	4650	CD2	PHE			12.166	56.348	60.885	1.00 18.41	С
MOTA	4652	С	PHE	В	271	14.936	58.168	57.583	1.00 14.72	C
ATOM	4653	0	PHE	В	271	15.368	57.086	57.140	1.00 15.05	0
ATOM	4654	N			272	14.599	59.198	56.797	1.00 15.02	N
ATOM	4656	CA			272	14.748	59.149	55.328	1.00 14.87	C
ATOM	4658	CB			272	14.101	60.368	54.642	1.00 14.56	Ċ
ATOM	4660	OG1				14.749	61.567	55.057	1.00 12.34	Ö
ATOM	4662	CG2			272	12.651	60.545	55.069	1.00 14.67	Č
ATOM	4666	C			272	16.219	59.109	54.961	1.00 15.29	č
ATOM	4667	õ			272	16.640	58.450	54.001	1.00 13.23	Õ
ATOM	4668	N			273	16.997	59.818	55.764		
								55.485	1.00 16.21	N
MOTA	4670	CA			273	18.405	59.963		1.00 17.15	C
MOTA	4672	CB			273	18.992	61.146	56.242	1.00 17.12	C
ATOM	4675	CG			273	18.835	62.413	55.419	1.00 18.24	C
ATOM	4678	CD			273	19.309	63.646	56.145	1.00 20.25	C
MOTA	4679		GLU			18.516	64.607	56.299	1.00 21.67	0
ATOM	4680		GLU			20.479	63.646	56.548	1.00 20.79	0
MOTA	4681	С	GLU	В	273	19.148	58.674	55.741	1.00 17.51	С
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ATOM ATOM	4682 4683	N O	GLU B	274	20.086 18.716	58.355 57.915	55.009 56.740	1.00 18.09 1.00 17.88
ATOM	4685	CA	LEU B	274	19.280	56.589	56.962	1.00 18.24
MOTA	4687	CB	LEU B		18.919	56.064	58.345	1.00 18.44
ATOM	4690	CG	LEU B	274 ·	19.333	56.898	59.559	1.00 20.02
ATOM	4692	CD1	LEU B		18.910	56.182	60.858	1.00 21.07
ATOM	4696	CD2	LEU B		20.825	57.222	59.575	1.00 21.28
ATOM	4700	С	LEU B		18.811	55.611	55.880	1.00 17.93
ATOM		٥.	LEU B		19.575	54.755	55.458	1.00 17.46
ATOM	4702	N	ALA B		17.562	55.768	55.431	1.00 17.83
ATOM	4704	CA	ALA B		16.987	54.924	54.386	1.00 17.37
ATOM	4706	СВ	ALA B		15.553	55.269	54.142	1.00 16.76
MOTA	4710	С	ALA B		17.778	55.084	53.118	1.00 18.01
ATOM	4711	0	ALA B		18.088	54.097	52.466	1.00 18.14
ATOM	4712	N	ILE B		18.107	56.330	52.770	1.00 18.68
ATOM	4714	CA	ILE B		18.945	56.613	51.623	1.00 18.96
ATOM	4716	CB	ILE B		19.214	58.142	51.475	1.00 19.22
ATOM	4718	CG1	ILE B		17.991	58.845	50.882	1.00 18.43
ATOM ATOM	4721 4725	CD1 CG2	ILE B		18.007	60.347	51.022	1.00 17.60
ATOM	4729	CGZ	ILE B		20.450	58.409	50.592	1.00 19.31
ATOM	4730	Ö	ILE B		20.244 20.620	55.857	51.784	1.00 19.67
ATOM	4731	N	ILE B		20.020	55.113 56.016	50.901 52.918	1.00 20.42
ATOM	4733	CA	ILE B		22.206	55.341	53.135	1.00 20.23 1.00 20.68
ATOM	4735	CB	ILE B		22.748	55.641	54.560	1.00 20.68
MOTA	4737	CG1	ILE B		23.202	57.085	54.641	1.00 20.48
ATOM	4740	CD1	ILE B		23.112	57.656	56.037	1.00 21.64
ATOM	4744	CG2	ILE B	277	23.908	54.755	54.926	1.00 20.23
ATOM	4748	С	ILE B	277	22.064	53.836	52.885	1.00 21.24
ATOM	4749	0	ILE B		22.933	53.218	52.296	1.00 21.33
ATOM	4750	N	SER B		20.948	53.264	53.312	1.00 22.00
ATOM	4752	CA	SER B		20.710	51.835	53.182	1.00 22.97
ATOM	4754	CB	SER B		19.534	51.411	54.085	1.00 23.45
ATOM ATOM	4757	OG	SER B		19.807	50.198	54.786	1.00 26.12
ATOM	4759 4760	С 0	SER B SER B		20.472	51.437	51.709	1.00 22.73
ATOM	4761	N	VAL B		20.951 19.751	50.399	51.241	1.00 22.40
ATOM	4763	CA	VAL B		19.488	52.277 52.021	50.979 49.573	1.00 22.57
ATOM	4765	CB	VAL B		18.607	53.116	48.929	1.00 22.50 1.00 22.38
ATOM	4767	CG1	VAL B		18.448	52.853	47.461	1.00 22.38 1.00 21.66
ATOM	4771	CG2	VAL B		17.214	53.181	49.587	1.00 21.00
ATOM	4775	С	VAL B		20.811	51.942	48.829	1.00 22.93
ATOM	4776	0	VAL B	279	21.018	51.066	48.020	1.00 23.53
ATOM		N	GLN B	280	21.719	52.854	49.118	1.00 23.29
AŢOM	4779	CA	GLN B		23.000	52.877	48.448	1.00 23.37
ATOM	4781		GLN B		23.704	54.221	48.665	1.00 23.57
ATOM	4784		GLN B		22.869	55.415	48.141	1.00 25.84
ATOM		CD	GLN B		23.391	56.815	48.571	1.00 30.13
ATOM ATOM			GLN B		23.752	57.035	49.747	1.00 32.29
		NE2 C	GLN B GLN B		23.406	57.766	47.620	1.00 30.97
			GLN B		23.850 24.576	51.686 51.160	48.887	1.00 23.22
			GLU B		23.756	51.245	48.066	1.00 23.71
			GLU B		24.459	50.031	50.146 50.609	1.00 23.05
		CB	GLU B	281	24.302	49.865	52.125	1.00 23.19 1.00 23.69
			GLU B		25.233	50.720	52.123	1.00 23.69
MOTA		CD	GLU B	281	25.101 ⁻	50.516	54.491	1.00 27.14
	4805	OE1	GLU B	281	24.386	49.589	54.988	1.00 31.02
		OE2	GLU B	281	25.735	51.323	55.212	1.00 34.33
			GLU B		23.932	48.741	49.928	1.00 22.41
ATOM	4808	0	GLU B	281	24.666	47.794	49.682	1.00 21.37

ATOM	4809	N	ILE	В	282		22.636	48.715	49.655	1.00	21.99	N
ATOM	4811	CA	ILE		282		22.018	47.576	49.041		21.73	C
ATOM	4813	CB	ILE	В	282		20.518	47.612	49.272		21.40	č
MOTA	4815	CG1			282		20.200	47.370	50.747		20.60	Ċ
MOTA	4818		ILE		282		18.743	47.703	51.106	1.00	20.68	С
ATOM	4822	CG2	ILE				19.849	46.556	48.433		21.56	С
ATOM	4826	C			282		22.356	47.550	47.543		21.93	С
ATOM	4827	0			282		22.505	46.473	46.962		22.72	0
ATOM	4828	N			283		22.486	48.715	46.919		21.41	N
ATOM	4830	CA			283		22.930	48.769	45.539		21.34	C
ATOM ATOM	4832 4834	CB	VAL		283 283		22.949 23.718	50.210	44.985		21.18	C
ATOM	4838		VAL				21.549	50.294 50.693	43.702 44.747		21.22	C
ATOM		. C			283		24.311	48.160	45.478		21.12 21.51	C
ATOM	4843	0			283		24.513	47.153			21.40	Ö
ATOM	4844	N			284		25.244	48.783	46.196		22.34	
ATOM	4846	CA			284		26.652	48.375	46.304		22.25	c
ATOM	4848	CB			284		27.385	49.244	47.360		22.76	Č
ATOM	4851	CG			284		27.596	50.726	46.915		25.07	C
MOTA	4852	OD1	ASP	В	284		28.189	51.505	47.712	1.00	27.18	O
ATOM	4853	OD2	ASP				27.214	51.208	45.809	1.00	28.63	~
ATOM	4854	С			284		26.788	46.890	46.638		21.52	
ATOM	4855	0			284		27.562	46.213	46.021		21.44	0
ATOM	4856	N			285		26.010	46.386	47.586		21.54	N
ATOM	4858	CA			285		26.003	44.958	47.926		21.74	C
MOTA	4860	CB			285		25.005	44.667	49.037		21.35	C
ATOM ATOM	4863 4864	CG CD1	PHE		285		25.024	43.247	49.502		20.54	C
ATOM	4866		PHE				26.159 26.185	42.711 41.370	50.069		20.53	C
ATOM	4868	CZ			285		25.076	40.578	50.501 50.366		20.89	C
ATOM	4870		PHE				23.929	41.115	49.811		20.65	C
ATOM	4872		PHE				23.908	42.439	49.374		20.26	c
ATOM	4874	C			285		25.649	44.053	46.750		22.43	
ATOM	4875	0			285		26.387	43.118	46.441		22.74	ŏ
ATOM	4876	N	ALA	В	286		24.506	44.322	46.125		22.65	N
ATOM	4878	CA			286		24.016	43.536	45.005	1.00	22.80	С
ATOM	4880	CB			286		22.704	44.102	44.525	1.00	22.88	С
MOTA	4884	C			286		25.016	43.463	43.865		23.08	С
ATOM	4885	0			286		25.214	42.411	43.264		22.81	0
ATOM ATOM	4886	N			287		25.685	44.568	43.596		23.87	N
ATOM	4888 4890	CA CB			287 287		26.652	44.602	42.517		25.11	C
ATOM	4893	CG			287		27.226 26.187	46.003 46.971	42.344 41.748		25.42 28.28	C
ATOM	4896	CD			287		26.832	48.165	41.063		31.35	C
ATOM	4899	CE			287			49.377		1 00	32.96	C
ATOM	4902	NZ			287		26.647	50.645	41.304		32.73	N
ATOM	4906	С			287		27.760	43.590	42.722		25.44	C
MOTA	4907	0			287		28.361	43.137	41.752		26.61	ŏ
MOTA	4908	N			288		28.022	43.224	43.970		25.27	N
ATOM	4910	CA			288		29.029	42.219	44.288		25.25	C
ATOM	4912	СВ			288	-	29.717	42.573	45.589	1.00	25.77	С
ATOM	4915	CG			288		29.935	44.035	45.776		27.24	С
ATOM	4918	CD			288		31.158	44.290	46.532		29.33	С
MOTA	4919		GLN				32.196	44.483	45.934		35.09	0
ATOM ATOM	4920 4923	NE2	GLN		288		31.075	44.259	47.853		29.00	N
ATOM	4923	0			288 288		28.503 29.283	40.805	44.434		24.86	C
ATOM	4925	И			289		29.283	39.891 40.610	44.558		24.91	0
ATOM	4927	CA			289		26.660	39.267	44.467 44.486		24.74 24.58	N
ATOM	4929	CB			289		25.162	39.251	44.400		24.58	C
MOTA	4931				289		24.634	37.835	44.812		24.69	C

ATOM ATOM	4935		VAL B		24.921	39.868	46.156	1.00 23.93
ATOM	4939 4940	C 0	VAL B		26.929	38.717		1.00 24.83
ATOM	4941	N	PRO B		26.472	39.300	42.122	1.00 25.10
ATOM	4942	CA	PRO B		27.678	37.620	42.992	1.00 24.94
ATOM	4944	CB	PRO B		28.052	37.045	41.695	1.00 24.44
ATOM	4947	CG	PRO B		28.777	35.746	42.062	1.00 24.45
ATOM	4950	CD	PRO B		29.202	35.917	43.425	1.00 25.44
ATOM	4953	C	PRO B		28.174 26.825	36.803	44.112	1.00 25.43
ATOM	4954	Ö	PRO B		25.905	36.690	40.884	1.00 24.08
ATOM	4955	N	GLY B		26.833	36.024 37.116	41.437	1.00 23.85
ATOM	4957	CA	GLY B		25.735	36.879	39.612	1.00 23.44
ATOM	4960	C	GLY B		24.833	38.077	38.694 38.450	1.00 23.44
ATOM	4961	Ö	GLY B		24.359	38.280	37.328	1.00 23.12 1.00 23.38
ATOM	4962	N	PHE B		24.613	38.865	39.502	1.00 23.38
ATOM	4964	CA	PHE B		23.731	40.039	39.480	1.00 22.38
ATOM	4966	CB	PHE B		23.776	40.776	40.851	1.00 21.36
ATOM	4969	CG	PHE B		22.739	41.855	40.973	1.00 20.83
ATOM	4970		PHE B		21.476	41.554	41.391	1.00 17.24
ATOM	4972		PHE B		20.506	42.530	41.450	1.00 17.24
ATOM	4974	CZ	PHE B		20.809	43.828	41.072	1.00 17.38
ATOM	4976		PHE B		22.078	44.131	40.657	1.00 16.22
ATOM	4978		PHE B		23.020	43.154	40.591	1.00 16.61
ATOM	4980	С	PHE B	292	23.986	41.031	38.304	1.00 21.31
ATOM	4981	0	PHE B	292	23.072	41.350	37.526	1.00 20.13
MOTA	4982	N	LEU B	293	25.219	41.508	38.186	1.00 21.18
ATOM	4984	CA	LEU B	293	25.568	42.430	37.111	1.00 21.76
MOTA	4986	CB	LEU B		27.022	42 [.] .927	37.264	1.00 21.82
ATOM	4989	CG	LEU B	293	27.303	43.908	38.421	1.00 22.75
ATOM		CD1		293	28.745	44.210	38.488	1.00 22.25
ATOM	4995		LEU B		26.506	45.225	38.324	1.00 24.06
ATOM	4999	С	LEU B		25.341	41.853	35.687	1.00 21.89
ATOM	5000	0	LEU B		25.247	42.629	34.722	1.00 22.16
ATOM	5001	N	GLN B		25.257	40.519	35.553	1.00 21.83
ATOM	5003	CA	GLN B	294	25.055	39.871	34.241	1.00 21.53
ATOM	5005	CB	GLN B	294	25.824	38.545	34.149	1.00 22.04
ATOM ATOM	5008 5011	CG .	GLN B	294	27.313	38.716	33.899	1.00 22.88
ATOM	5011	CD	GLN B	294	28.025	39.240	35.129	1.00 24.99
ATOM	5012	NE2	GLN B	294	27.859	38.682	36.221	1.00 27.10
ATOM	5016	C	GLN B		28.787 23.570	40.333	34.974	1.00 25.18
ATOM	5017	ŏ	GLN B	294	23.257	39.685	33.869	1.00 20.64
ATOM	5018	N		295	22.671	39.291 39.985	32.760	1.00 20.25
ATOM	5020	CA	LEU B	295	21.258	40.109	34.798	1.00 19.78
ATOM	5022	CB	LEU B		20.419	40.160	34.485 35.768	1.00 19.15 1.00 18.87
ATOM	5025	CG	LEU B		20.556	38.976	36.727	1.00 18.87
MOTA			LEU B		19.715	39.168	38.003	1.00 17.43
ATOM	5031	CD2	LEU B	295	20.197	37.685	36.013	1.00 17.43
ATOM	5035	С	LEU B		21.079	41.397	33.705	1.00 19.02
ATOM	5036	0	LEU B	295	21.824	42.353	33.912	1.00 19.01
ATOM		N	GLY B		20.107	41.431	32.802	1.00 18.97
ATOM	5039	CA	GLY B		19.738	42.676	32.149	1.00 18.83
ATOM		C	GLY B	296	19.520	43.804	33.148	1.00 18.89
ATOM	5043	0	GLY B		18.954	43.608	34.222	1.00 18.57
ATOM	5044	N	ARG B		19.967	44.997	32.797	1.00 19.04
ATOM	5046		ARG B		19.892	46.109	33.732	1.00 19.82
ATOM	5048	CB	ARG B		20.503	47.381	33.145	1.00 20.40
ATOM	5051		ARG B		20.706	48.509	34.209	1.00 25.47
ATOM	5054		ARG B		21.667	49.639	33.716	1.00 32.84
ATOM			ARG B		21.746	50.888	34.511	1.00 37.15
ATOM	5059	CZ	ARG B	297	20.774	51.808	34.643	1.00 40.07

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ATOM	5060	NH1	ARG	В	297	19.591	51.645	34.067	1.00 41.83	N
ATOM	5063		ARG			20.978	52.896	35.381	1.00 40.87	N
ATOM	5066	С	ARG	В	297	18.464	46.387	34.242	1.00 18.56	C
ATOM	5067	0	ARG	·B	297	18.282	46.799	35.394	1.00 18.69	0
ATOM	5068	N	GLU	В	298	17.462	46.154	33.410	1.00 17.09	N
MOTA	5070	CA	GLU			16.095	46.419	33.822	1.00 16.30	С
MOTA	5072	CB	\mathtt{GLU}			15.140	46.397	32.633	1.00 16.18	С
MOTA	5075	CG	GLU			15.308	47.616	31.754	1.00 16.34	C
MOTA	5078	CD			298	14.432	47.610	30.516	1.00 17.34	C
ATOM	5079		GLU			14.145	46.520	29.956	1.00 17.09	0
ATOM	5080	OE2	GLU			14.051	48.725	30.093	1.00 17.25	0
ATOM	5081	C			298	15.669	45.459	34.917	1.00 15.45	C
MOTA	5082	0			298	15.004	45.862	35.842	1.00 14.23	0
MOTA MOTA	5083 5085	N CA			299 299	16.099 15.837	44.208 43.212	34.820 35.848	1.00 15.32	N
ATOM	5087	CB			299	16.176	41.816	35.354	1.00 15.38 1.00 15.65	. C
ATOM	5090	CG			299	15.101	41.240	34.472	1.00 17.26	· C
MOTA	5091		ASP			14.197	42.027	34.084	1.00 17.20	Ö
MOTA	5092		ASP			15.079	40.030	34.111	1.00 18.02	Ö
ATOM	5093	C			299	16.642	43.493.		1.00 15.54	č
ATOM	5094	. 0			299	16.178	43.232	38.182	1.00 15.50	Ö
ATOM	5095	N			300	17.854	44.017	36.945	1.00 15.75	N
ATOM	5097	CA			300	18.616	44.408	38.125	1.00 16.03	C
ATOM	5099	CB	GLN	В	300	19.960	45.046	37.765	1.00 16.08	С
ATOM	5102	CG	GLN	В	300	21.037	44.091	37.367	1.00 16.28	С
MOTA	5105	CD			300	22.162	44.827	36.691	1.00 16.76	С
MOTA	5106		GLN			22.495	45.921	37.113	1.00 18.65	0
MOTA	5107	NE2			300	22.729	44.256	35.635	1.00 17.16	N
ATOM	5110	C			300	17.801	45.452	38.869	1.00 16.45	С
ATOM	5111	0			300	17.594	45.347	40.075	1.00 16.44	0
MOTA	5112	N			301	17.379	46.489	38.147	1.00 16.69	N
MOTA	5114	CA			301	16.582	47.549	38.751	1.00 17.30	C
ATOM ATOM	5116 5118	CB CG1			301 301	16.212 17.386	48.604 49.547	37.713 37.487	1.00 17.31 1.00 18.26	C C
ATOM	5121		ILE			17.252	50.424	36.211	1.00 18.26	C
MOTA	5125		ILE			15.010	49.390	38.158	1.00 17.43	C
ATOM	5129	C			301	15.314	46.991	39.389	1.00 17.45	C
ATOM	5130	ŏ			301	14.943	47.392	40.474	1.00 18.77	ő
ATOM	5131	N			302	14.653	46.069	38.718	1.00 17.35	N
ATOM	5133	CA			302	13.410	45.554	39.208	1.00 17.68	Ċ
MOTA	5135	CB ·	ALA			12.670	44.722	38.070	1.00 17.98	С
ATOM	5139	С	ALA	В	302	13.638	44.702	40.463	1.00 18.37	С
MOTA	5140	0			302	12.785	44.672	41.359	1.00 18.56	. 0
MOTA	5141	N			303	14.763	43.988	40.544	1.00 18.70	N
ATOM	5143	CA			303	15.010	43.181	41.743		
ATOM	5145	CB			303	16.131	42.160	41.550	1.00 18.94	С
ATOM	5148	CG			303	15.921	41.116	40.456	1.00 19.63	С
MOTA	5150		LEU			17.184	40.296	40.243	1.00 19.51	C
MOTA	5154		LEU			14.704	40.222	40.770	1.00 20.37	C
MOTA	5158	C			303	15.315	44.089	42.927	1.00 19.53	C
MOTA MOTA	5159 5160	O N			303 304	14.855 16.067	43.820 45.164	44.029 42.696	1.00 19.40	0
ATOM	5162	CA			304	16.414	46.076	43.770	1.00 20.29 1.00 21.41	N C
ATOM	5164	CB			304	17.634	46.895	43.428	1.00 21.41	C
ATOM	5167	CG			304	18.982	46.131	43.413	1.00 24.86	C
ATOM	5169		LEU			20.059	46.873	42.548	1.00 25.83	č
ATOM	5173		LEU			19.577	45.925	44.776	1.00 25.83	č
ATOM	5177	C			304	15.228	46.974	44.198	1.00 21.93	č
ATOM	5178	O			304	15.114	47.265	45.391	1.00 21.91	0
MOTA	5179	N	LYS	В	305	14.324	47.362	43.284	1.00 22.09	N
MOTA	5181	CA			305	13.119	48.093	43.698	1.00 22.86	С
								~	·····	····

ATOM	5183	СВ	LYS	ъ	305		12 220	40 461	40 512		
ATOM	5186	CG	LYS		305		12.230 12.565	48.461	42.517	1.00 23.46	
ATOM	5189	CD	LYS		305			49.779	41.914	1.00 27.72	
ATOM	5192	CE	LYS				11.368	50.518	41.287	1.00 31.54	
ATOM	5195	NZ	LYS		305 ·		11.958	51.725	40.463	1.00 33.94	
ATOM	5199	C	LYS				11.003	52.390	39.507	1.00 35.51	
ATOM	5200	ŏ	LYS		305 305		12.253	47.312	44.692	1.00 22.71	
ATOM	5201	N	ALA				11.634 12.176	47.877	45.582	1.00 23.22	
ATOM	5203	CA	ALA					46.011	44.509	1.00 22.44	
ATOM	5205	CB	ALA		306 306		11.287	45.195	45.294	1.00 21.84	
ATOM	5209	C	ALA		306 306		10.852	44.021	44.489	1.00 21.78	
ATOM	5210	Ö	ALA		306 306		11.985	44.734	46.574	1.00 21.85	
ATOM	5211	N	SER		300 307		11.387	44.778	47.648	1.00 21.97	
ATOM	5213	CA	SER				13.245	44.298	46.464	1.00 21.25	
ATOM	5215	CB	SER		307 307		13.925	43.658		1.00 20.58	
ATOM	5218	OG	SER		307 307		15.040	42.740	47.110	1.00 19.92	
ATOM	5220	C	SER		307 307		15.948	43.478	46.369	1.00 21.56	
ATOM	5221	õ	SER		30 <i>7</i> 307		14.491	44.664	48.592	1.00 20.10	
ATOM	5222	N	THR		30 <i>1</i> 308		14.849	44.277	49.686	1.00 20.12	
ATOM	5224	CA	THR		308		14.550 15.229	45.947.		1.00 19.53	
ATOM	5226	CB	THR		308		15.229	46.952	49.060	1.00 18.86	
ATOM	5228	OG1	THR		308		16.445	48.319 48.318	48.323	1.00 18.63	
ATOM	5230	CG2	THR		308		15.592	49.455	47.466	1.00 16.35	
ATOM	5234	C	THR		308		14.612	47.099	49.275	1.00 18.82	
ATOM	5235	ŏ.	THR		308		15.308	46.991	50.456	1.00 18.81	
ATOM	5236	N	ILE		309		13.308	40.991	51.470	1.00 19.34	
ATOM	5238	CA	ILE		309		12.636	47.468	50.512	1.00 18.64	
ATOM	5240	CB	ILE		309		11.142	47.861	51.791	1.00 18.62	
ATOM	5242	CG1	ILE		309		10.484	48.168	51.596 52.933	1.00 18.32	
MOTA	5245	CD1	ILE		309		11.060	49.377	53.632	1.00 18.77	
ATOM	5249	CG2			309		10.368	46.774	50.898	1.00 20.64	•
ATOM	5253	C	ILE		309		12.820	46.171	52.564	1.00 18.60 1.00 18.73	
MOTA	5254	Ō	ILE		309		13.185	46.183	53.730	1.00 18.73 1.00 18.87	
ATOM	5255	N	GLU		310		12.650	45.045	51.890	1.00 18.87	
ATOM	5257	CA	GLU		310		12.748	43.765	52.577	1.00 10.92	
ATOM	5259	CB	GLU		310		12.283	42.585	51.681	1.00 19.39	
ATOM	5262	CG	GLU		310		10.846	42.760	51.182	1.00 19.39	
MOTA	5265	CD	GLU	в 3	310		10.416	41.734	50.166	1.00 17.06	
ATOM	5266	OE1	GLU	в 3	310		10.970	40.632	50.150	1.00 17.00	
ATOM	5267	OE2	GLU	в 3	310		9.517	42.049	49.385	1.00 15.70	
ATOM	5268	C	GLU :		310	•	14.153	43.556	53.164	1.00 19.28	
ATOM	5269	0	GLU :	в 3	310		14.275	43.145	54.297	1.00 20.06	
MOTA	5270	N	ILE :	в 3	311		15.207	43.841	52.426	1.00 19.11	
ATOM	5272	CA	ILE :		311		16.549	43.727	52.981	1.00 19.43	
ATOM	5274	CB	ILE :	в 3	311		17.584	44.028	51.873	1.00 19.38	
MOTA	5276	CG1	ILE 1	вз	311		17.584	42.886	50.853	1.00 21.23	
MOTA	5279		ILE 1				18.328	43.161	49.548	1.00 21.91	
MOTA	5283		ILE 1				18.974	44.144	52.425	1.00 19.92	
MOTA	5287	С	ILE :				16.668	44.677	54.216	1.00 19.73	
MOTA	5288	0	ILE :	в 3	311		17.214	44.305	55.261	1.00 19.63	
ATOM	5289	N	MET]				16.111	45.888	54.106	1.00 19.63	
ATOM	5291	CA	MET I				16.140	46.851	55.207	1.00 19.06	
ATOM	5293		MET I	в 3	112		15.467	48.164	54.811	1.00 18.57	
MOTA	5296	CG	MET I	в 3	112		16.294	49.026	53.923	1.00 19.46	
ATOM	5299		MET I				15.294	50.248	53.037	1.00 23.22	
MOTA	5300		MET 1				15.641	51.542	53.930	1.00 27.05	
ATOM	5304		MET 1				15.461	46.264	56.451	1.00 18.73	
ATOM	5305	0	MET I	B 3	12		15.933	46.461	57.565	1.00 18.21	
ATOM ATOM	5306 5308		LEU I			•	14.357	45.546	56.248	1.00 18.54	
ATOM	5310		LEU I				13.606	44.939	57.357	1.00 18.41	
MION	2210	CB	LEU I	5	13		12.261	44.396	56.876	1.00 17.85	

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ATOM	5313	CC	LEU	D	313	11.193	45.454	56.757	1.00 18.52	С
			LEU			10.155	44.996	55.724	1.00 18.32	C
ATOM	5315		LEU				45.721	58.115	1.00 19.77	c
ATOM	5319					10.548 14.382	43.721	58.035	1.00 18.67	c
ATOM	5323		LEU LEU			14.256	43.619	59.221	1.00 16.44	Ö
ATOM	5324	0	LEU			15.143	43.070	57.238	1.00 19.37	N
ATOM	5325	N					42.042			C
ATOM	5327	CA	LEU		314	16.043		57.722	1.00 20.48	c
ATOM	5329	CB	LEU		314	16.708	41.300	56.539 56.126	1.00 20.72	c
ATOM	5332	CG	LEU		314	16.283	39.877		1.00 22.28	C
ATOM	5334		LEU		314	15.200	39.194	57.028	1.00 22.02	C
ATOM	5338		LEU		314	15.826	39.912	54.674	1.00 24.01	C
ATOM	5342	C	LEU			17.132	42.690 42.140	58.574 59.580	1.00 20.74 1.00 20.37	0
MOTA	5343	0	LEU		314	17.544				N
MOTA	5344	N	GLU			17.581	43.864	58.144	1.00 21.40 1.00 21.89	C
MOTA	5346	CA	GLU			18.733	44.534	58.729		C
MOTA	5348	CB	GLU			19.338	45.547	57.731	1.00 22.24	C
ATOM	5351	CG	GLU			20.322	44.933	56.737	1.00 23.69	C C
MOTA	5354	CD	GLU			21.575	44.379	57.398	1.00 27.48	
ATOM	5355	OE1	GLU			22.095	45.017	58.310	1.00 31.94	0
MOTA	5356	OE2				22.056	43.300	57.029	1.00 31.90	0
MOTA	5357	C			315	18.300	45.192	60.016	1.00 21.60	C
ATOM	5358	0	GLU			19.024	45.189	61.009	1.00 21.91	0
MOTA	5359	N			316	17.097	45.733	59.984	1.00 21.60	N
MOTA	5361	CA			316	16.403	46.195	61.177	1.00 21.80	C
ATOM	5363	CB			316	15.031	46.791	60.788	1.00 22.31	C
MOTA	5365		THR			15.237	47.956	59.981	1.00 23.26	0
MOTA	5367	CG2			316	14.255	47.346	62.002	1.00 22.77	C
MOTA	5371	С			316	16.246	45.094	62.210	1.00 21.08	C
MOTA	5372	0			316	16.609	45.283	63.341	1.00 21.20	0
ATOM	5373	N	ALA	В	317	15.745	43.935	61.824	1.00 21.00	N
ATOM	5375	CA			317	15.554	42.836	62.770	1.00 20.86	C
MOTA	5377	CB			317	14.841	41.671	62.116	1.00 20.23	C
ATOM	5381	С			317	16.893	42.390	63.328	1.00 21.61	C
MOTA	5382	0			317	17.018	42.112	64.524	1.00 20.97	0
MOTA	5383	N			318	17.903	42.369	62.463	1.00 22.98	N
ATOM	5385	CA			318	19.226	41.827	62.796	1.00 24.26	C
MOTA	5387	CB			318	20.116	41.839	61.554	1.00 24.61	C
ATOM	5390	CG			318	21.565	41.506	61.785	1.00 27.30	C
ATOM	5393	CD			318	22.441	41.899	60.624	1.00 31.26	C
ATOM	5396	NE			318	23.506	40.917	60.464	1.00 35.50	N
ATOM	5398	CZ			318	23.922	40.419	59.298	1.00 39.04	C
ATOM	5399		ARG			23.378	40.814	58.141	1.00 40.24	N
ATOM	5402		ARG			24.899	39.516	59.287	1.00 40.03	N
ATOM	5405	C			318	19.865	42.652	63.893	1.00 24.70	C
MOTA	5406	0			318	20.676	42.149	64.669	1.00 24.10	0
MOTA	5407	N			319	19.481	43.923	63.941	1.00 25.45	N
MOTA	5409	CA			319	20.015	44.864	64.915	1.00 26.42	C
ATOM	5411	CB			319	20.334	46.168	64.194	1.00 27.16	C
ATOM	5414	CG			319	21.829	46.223	63.790	1.00 31.66	C
ATOM	5417	CD			319	22.152	47.171	62.655	1.00 36.71	C
MOTA	5420	NE			319	22.671	46.475	61.483	1.00 40.23	N
ATOM	5422	CZ			319	23.531	47.013	60.638	1.00 43.84	C
ATOM	5423		ARG			23.969	48.264	60.829	1.00 45.76	N
MOTA	5426		ARG			23.975	46.303	59.604	1.00 44.34	N
ATOM	5429	C			319	19.124	45.106	66.139	1.00 25.53	C
ATOM	5430	0			319	19.473	45.867	67.026	1.00 26.02	0
ATOM	5431	N			320	17.994	44.421	66.196	1.00 24.69	N
MOTA	5433	ÇA			320	17.080		67.331	1.00 23.67	C
ATOM	5435	CB			320	15.796		67.020	1.00 23.61	C
MOTA	5438	CG			320	14.850		68.179	1.00 22.41	C
MOTA	5439	CD1	TYR	. В	320	14.200	44.809	68.620	1.00 22.51	С
							· · · · · · · · · · · · · · · · · · ·			

ATOM ATOM ATOM ATOM	5441 5443 5444 5446	CE1 CZ OH CE2		3 320 3 320	13.309 13.084 12.216 13.735	44.769 43.567 43.506 42.414	69.698 70.356 71.426 69.925	1.00 23.50 1.00 23.49 1.00 22.21 1.00 23.51	
ATOM	5448	CD2	TYR I		14.606	42.470	68.832	1.00 22.26	
ATOM .	5450	C		3 3 2 0	17.709	43.904	68.573	1.00 22.89	
ATOM ATOM	5451 5452	0		3 320	18.388	42.900	68.515	1.00 22.88	
ATOM	5452	N CA	ASN I		17.443 18.003	44.534	69.698	1.00 22.27	
ATOM	5456	CB	ASN I		19.019	44.149 45.211	70.973 71.389	1.00 21.53 1:00 21.58	•
ATOM	5459	CG	ASN I		19.546	45.038	72.808	1.00 21.38	
MOTA	5460		ASN I		18.880	44.505	73.707	1.00 21.22	
ATOM	5461		ASN I		20.753	45.527	73.018	1.00 19.82	
ATOM	5464	С	ASN I		16.814	44.048	71.923	1.00 21.27	•
MOTA	5465	0	ASN I		16.111	45.024	72.171	1.00 19.93	
MOTA	5466	N	HIS H		16.588	42.842	72.427	1.00 21.61	
ATOM ATOM	5468 5470	CA CB	HIS H		15.390	42.538	73.194	1.00 21.93	
ATOM	5473	CG	HIS H		15.038 13.659	41.042	73.048	1.00 22.03	•
ATOM	5474		HIS E		12.533	40.684 41.407	73.529 73.188	1.00 22.23 1.00 21.02	-
ATOM	5476		HIS E		11.475	40.862	73.759	1.00 21.02	
MOTA	5478		HIS E		. 11.872	39.810	74.456	1.00 21.69	
AŢĢM	5480		HIS E		13.233	39.681	74.336	1.00 21.10	
ATOM	5482	С	HIS E		15.504	42.972	74.668	1.00 21.69	
ATOM	5483	0	HIS E		14.503	43.043	75.371	1.00 20.75	
MOTA	5484	N	GLU E		16.708	43.279	75.127	1.00 22.24	
ATOM ATOM	5486 5488	CA CB	GLU E		16.858	43.883	76.452	1.00 23.45	
ATOM	5491	CG	GLU E		18.324 19.113	44.065 42.867	76.840 · 77.348		
ATOM	5494	CD	GLU E		20.561	43.291	77.602	1.00 26.76 1.00 30.16	
ATOM	5495		GLU E		21.284	43.480	76.576	1.00 30.18	
ATOM .	5496		GLU E		20.948	43.500	78.797	1.00 30.01	
MOTA	5497	С	GLU E	_	16.234	45.280	76.497	1.00 23.08	
MOTA	5498	0.	GLU E		15.527	45.616	77.451	1.00 23.13	
MOTA	5499	N	THR E		16.547	46.085	7.5.474	1.00 22.66	
ATOM ATOM	5501 5503	CA CB	THR E		16.163	47.498	75.392	1.00 21.95	
ATOM	5505	OG1	THR E		17.344 17.583	48.329 47.969	74.827	1.00 21.80	
ATOM	5507	CG2	THR E		18.657	47.994	73.465 75.515	1.00 21.23 1.00 20.93	
MOTA	5511	С	THR E		14.920	47.715	74.514	1.00 20.93	
MOTA	5512	0	THR E		14.306	48.787	74.536	1.00 21.72	
ATOM	5513	N	GLU E		14.554	46.685	73.756	1.00 22.08	
ATOM	5515	CA	GLU B		13.502	46.756	72.736	1.00 22.38	
ATOM ATOM	5517 5520	CB CG	GLU B		12.116	46.851	73.401	1.00 22.40	
MOTA	5523	CD	GLU B		11.987 10.606	45.854 45.742	74.552	1.00 24.15	
ATOM	5524	OE1	GLU B		10.458	46.045	75.186 76.403	1.00 26.69	
ATOM	5525		GLU B		9.676	45.302	74.487	1.00 27.58 1.00 29.29	
MOTA	5526	С	GLU B	325	13.801	47.867	71.712	1.00 22.25	
ATOM	5527	0	GLU B		12.936	48.611	71.302	1.00 21.35	
ATOM	5528	N	CYS B		15.058	47.939	71.299	1.00 22.98	
ATOM	5530	CA	CYS B		15.511	48.981	70.405	1.00 23.87	
ATOM ATOM	5532 5535	CB SG	CYS B		16.413	49.983	71.132	1.00 23.67	
MOTA	5536	C	CYS B		15.550 16.286	51.068 48.416	72.285	1.00 21.30	
ATOM	5537	ō	CYS B		17.039	47.443	69.240 69.379	1.00 25.69 1.00 26.02	
MOTA	5538	N	ILE B	327	16.126	49.093	68.106	1.00 20.02	
MOTA	5540	CA	ILE B	327	16.757	48.752	66.845	1.00 28.95	
MOTA	5542	CB	ILE B	327	15.708	48.907	65.725	1.00 28.96	
MOTA	5544	CG1	ILE B	327	15.026	47.557	65.493	1.00 29.19	
ATOM	5547	CD1	ILE B	327	13.599	47.545	65.870	1.00 29.18	

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	5551 5555 5556 5557 55561 5563 5565 5570 5571 5573 5578 5579 5581	C O N CA CG C CD1	ILE ILE THR THR THR THR THR PHE PHE PHE	B B B B B B B B B B B B B B B B B B B	327 327 328 328 328 328 328 328 328 329 329 329 329 329	16.303 17.955 17.883 19.056 20.318 21.492 21.413 22.852 20.484 20.061 21.045 21.391 20.269 20.046 19.591 19.370	49.455 49.657 50.865 49.049 49.747 48.901 48.902 49.507 50.039 49.246 51.196 51.481 52.256 51.887 50.585 50.251	64.451 66.619 66.817 66.197 65.921 66.500 67.934 66.178 64.391 63.527 64.055 62.674 61.999 60.547 60.170 58.774	1.00 28.76 1.00 30.54 1.00 30.82 1.00 32.63 1.00 34.04 1.00 33.69 1.00 33.49 1.00 35.61 1.00 36.66 1.00 37.46 1.00 37.23 1.00 35.32 1.00 33.51 1.00 32.44	0000000000000000
MOTA	5583	CZ	PHE		329	19.600	51.240	57.779	1.00 32.28	C
ATOM	5585		PHE			20.061	52.534	58.160	1.00 32.50	C
MOTA	5587		PHE PHE		329	20.277 22.685	52.845 52.267	59.539 62.636	1.00 33.37 1.00 38.95	C C
ATOM ATOM	5589 5590	С 0	PHE			23.031	52.983	63.605	1.00 30.93	ő
ATOM	5591	N	ALA			23.401	52.110	61.519	1.00 40.52	N
ATOM	5593	CA	ALA			24.692	52.784	61.250	1.00 41.72	С
MOTA	5595	CB	ALA			24.448	54.292	60.856	1.00 41.87	C
ATOM	5599	C	ALA			25.755	52.665	62.382	1.00 42.50	C
ATOM	5600	0	ALA			26.510 25.796	53.613 51.501	62.635 63.047	1.00 42.94 1.00 42.97	O N
ATOM ATOM	5601 5603	N CA	LYS LYS			26.769	51.301	64.109	1.00 42.97	C
ATOM	5605	CB	LYS			28.154	51.807	63.813	1.00 43.35	С
ATOM	5608	CG	LYS			29.367	50.949	64.245	1.00 44.35	C
ATOM	5611	CD	LYS			30.132	51.529	65.477	1.00 44.51	С
ATOM	5614	CE	LYS			31.650	51.256	65.436	1.00 43.98	С
MOTA	5617	NZ	LYS			32.088	50.219	66.425	1.00 43.27	И
ATOM	5621	C	LYS			26.321	51.574 50.745	65.528 66.441	1.00 42.54 1.00 42.68	C 0
ATOM ATOM	5622 5623	O N	LYS ASP			26.393 25.870	52.816	65.715	1.00 42.00	Ŋ
ATOM	5625	CA	ASP			25.744	53.405	67.066	1.00 41.27	Ċ
ATOM	5627	CB			332	26.648	54.643	67.166	1.00 41.37	С
ATOM	5630	CG			332	27.916	54.376	67.939	1.00 43.32	С
MOTA	5631		ASP			27.800	53.754	69.015	1.00 45.82	0
MOTA	5632		ASP			29.066	54.755	67.569	1.00 45.99	0
MOTA	5633	C			332	24.324	53.807	67.519	1.00 40.06	C
MOTA MOTA	5634 5635	N O			332 333	23.973 23.535	53.629 54.375	68.694 66.597	1.00 40.21 1.00 38.31	O N
ATOM	5637	CA			333	22.264	55.048	66.929	1.00 36.53	Ĉ
ATOM	5639	CB			333	21.821	55.986	65.783	1.00 36.85	Ċ
ATOM	5642	CG			333	22.803	57.109	65.449	1.00 37.25	C
MOTA	5643		PHE	В	333	22.727	57.744	64.202	1.00 37.78	С
MOTA	5645		PHE			23.602	58.776	63.859	1.00 37.52	·C
MOTA	5647	CZ			333	24.579	59.191	64.762	1.00 37.96	C
ATOM	5649		PHE PHE			24.676 23.782	58.572 57.535	66.010 66.354	1.00 38.44 1.00 38.00	C
ATOM ATOM	5651 5653	CDZ			333	21.173	54.003	67.152	1.00 34.39	c
ATOM	5654	ŏ			333	21.133	53.011	66.425	1.00 34.49	ō
ATOM	5655	N	THR	В	334	20.298	54.213	68.142	1.00 31.37	N
MOTA	5657	CA	THR	В	334	19.233	53.245	68.423	1.00 28.90	С
MOTA	5659	CB			334	19.489	52.472	69.735	1.00 28.73	C
ATOM	5661	OG1			334	19.395	53.347	70.856	1.00 27.84	0
MOTA	5663	CG2			334	20.913 17.885	51.951 53.907	69.798 68.487	1.00 28.88 1.00 27.01	C
ATOM ATOM	5667 5668	C			334	17.776		68.881	1.00 27.01	0
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ATOM ATOM	5669 5671	N CA	TYR B		16.857	53.163	68.094	1.00 25.11
ATOM	5673	CB	TYR B		15.482	53.674	68.054	1.00 23.96
ATOM	5676	CG	TYR B		15.043 16.081	53.947 54.764	66.594	1.00 23.57
ATOM	5677	CD1	TYR B		17.128	54.764	65.863	1.00 22.27
ATOM	5679	CE1	TYR B		18.116	54.874	65.207	1.00 20.83
ATOM	5681	CZ	TYR B		.18.077	56.255	64.591	1.00 21.68
ATOM	5682	OH	TYR B		19.076	56.954	64.643	1.00 21.74
ATOM	5684	CE2	TYR B		17.057	56.908	64.007 65.313	1.00 22.73
ATOM	5686	CD2	TYR B		16.070	56.163	65.920	1.00 20.42
ATOM	5688		TYR B		14.527	52.719	68.769	1.00 20.65
ATOM	5689	ŏ	TYR B		14.706	51.506	68.715	1.00 23.17 1.00 22.58
ATOM	5690	N	SER B		13.536	53.282	69.456	1.00 22.38
ATOM	5692	CA	SER B		12.465	52.499	70.058	1.00 22.23
MOTA	5694	СВ	SER B		12.186	53.014	71.455	1.00 21.91
ATOM	5697	OG	SER B		11.627	54.304	71.383	1.00 20.32
ATOM	5699	С	SER B		11.171	52.601	69.229	1.00 22.21
ATOM	5700	0	SER B		11.056	53.445	68.355	1.00 22.21
ATOM ·	5701	N	LYS B		10.192	51.751	69.532	1.00 22.30
ATOM	5703	CA	LYS B		8.848	51.861	68.971	1.00 22.58
ATOM	5705	CB	LYS B		7.838	51.000	69.766	1.00 22.86
ATOM	5708	CG	LYS B		7.845	49.503	69.388	1.00 25.37
ATOM	5711	CD	LYS B	337	6.937	48.610	70.288	1.00 28.27
ATOM	5714	CE	LYS B	337	7.472	48.443	71.774	1.00 29.61
ATOM	5717	NZ	LYS B	337	8.733	47.647	71.941	1.00 28.77
MOTA	5721	·C	LYS B		8.395	53.315	68.969	1.00 22.19
ATOM	5722	0	LYS B		7.792	53.773	68.012	1.00 22.00
ATOM	5723	N	ASP B		8.688	54.035	70.047	1.00 22.23
ATOM	5725	CA	ASP B		8.183	55.401	70.219	1.00 22.28
ATOM	5727	CB			8.176	55.799	71.694	1.00 22.08
ATOM	5730	CG	ASP B		7.074	55.120	72.462	1.00 22.94
ATOM	5731		ASP B		6.945	55.394	73.666	1.00 26.13
ATOM	5732		ASP B		6.268	54.313	71.955	1.00 23.05
ATOM	5733	C	ASP B		8.939	56.433	69.387	1.00 22.00
ATOM	5734	0	ASP B		8.362	57.451	69.002	1.00 21.99
ATOM ATOM	5735 5737	N	ASP B		10.217	56.178	69.122	1.00 21.47
ATOM	5739	CA	ASP B		10.983	57.016	68.209	1.00 21.22
ATOM	5742	CB CG	ASP B	339	12.451	56.590	68.187	1.00 21.14
ATOM	5743			339 339	13.153 12.607	56.814	69.514	1.00 19.12
ATOM	5744		ASP B	339		57.516	70.397	1.00 18.47
ATOM	5745	C	ASP B	339	14.272 10.395	56.317	69.737	1.00 15.17
ATOM	5746	ŏ	ASP B		10.393	56.922 57.936	66.805 66.157	1.00 21.49 1.00 21.88
ATOM	5747	N		340	10.124	55.703	66.355	1.00 21.88 1.00 21.61
ATOM	5749	CA	PHE B		9.421	55.456	65.104	1.00 21.61
ATOM	5751	СВ	PHE B		9.155	53.956	64.950	1.00 22.23
ATOM	5754	CG	PHE B		10.312	53.168	64.340	1.00 22.43
ATOM	5755	CD1	PHE B		11.454	52.904	65.060	1.00 21.40
MOTA	5757				12.484	52.181	64.526	1.00 21.44
ATOM	5759	CZ	PHE B	340	12.390	51.679	63.267	1.00 24.00
ATOM	5761	CE2	PHE B	340	11.249	51.897	62.520	1.00 24.73
MOTA	5763	CD2	PHE B	340	10.217		63.057	1.00 24.99
MOTA	57,65	С	PHE B		8.085	56.224	65.016	1.00 23.08
ATOM	5766	0	PHE B	340	7.752	56.773	63.975	1.00 22.89
ATOM	5767	N		341	7.337	56.258	66.119	1.00 24.44
ATOM	5769	CA		341	6.057	56.966	66.211	1.00 25.29
ATOM	5771		HIS B		5.207	56.459	67.399	1.00 25.49
ATOM	5774		HIS B		3.867	57.130	67.497	1.00 29.92
	5775		HIS B		2.912	57.037	66.504	1.00 34.31
ATOM	5777		HIS B		1.857	57.767	66.834	1.00 35.62
MOTA	5779	NEZ	HIS B	341	2.092	58.339	68.004	1.00 35.84
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ATOM	5781	CD2	HIS	В	341	3.349	57.971	68.434	1.00 34.74	С
ATOM	5783	С	HIS	R	341	6.269	58.470	66.325	1.00 25.32	С
			HIS			5.413	59.248	65.912	1.00 25.52	Ö
ATOM	5784	0							1.00 25.67	
MOTA	5785	N	ARG			7.403	58.886	66.884		. И
MOTA	5787	CA	ARG	В	342	7.733	60.315	67.005	1.00 25.80	С
ATOM	5789	CB	ARG	В	342	8.877	60.541	67.983	1.00 26.04	. C
ATOM	5792	CG	ARG			8.462	60.654	69.435	1.00 27.57	C
		CD	ARG		342	9.666	60.676	70.390	1.00 29.94	Ċ
ATOM	5795									
MOTA	5798	NE	ARG		342	9.657	59.520	71.283	1.00 31.90	N
MOTA	5800	CZ	ARG	В	342	9.249	59.536	72.543	1.00 33.91	С
ATOM	5801	NH1	ARG	В	342	8.818	60.659	73.121	1.00 34.20	N
MOTA	5804		ARG		342	9.271	58.405	73.236	1.00 35.42	N
			ARG			8.138	60.889	65.663	1.00 25.34	С
ATOM	5807	C								ŏ
MOTA	5808	0	ARG			8.109	62.099	65.486	1.00 25.43	
MOTA	5809	N	ALA	В	343	8.526	60.000	64.743	1.00 24.91	N
MOTA	5811	CA	ALA	В	343	8.843	60.320	63.348	1.00 24.59	С
ATOM	5813	СВ	ALA		343	9.897	59.295	62.806	1.00 24.44	C
			ALA		343	7.596	60.310	62.444	1.00 24.35	. С
MOTA	5817	C							1.00 24.68	. 0
ATOM	5818	0	ALA			7.723	60.401	61.238		
MOTA	5819	N	GLY			6.406	60.159	63.031	1.00 24.10	N
MOTA	5821	CA	GLY	В	344	5.129	60.248	62.335	1.00 23.57	C
ATOM	5824	С	GLY			4.644	58.972	61.669	1.00 23.22	С
ATOM	5825	Ö			344	3.623	58.977	60.969	1.00 23.29	0
						5.386	57.883	61.834	1.00 22.86	N
ATOM	5826	N			345					C
MOTA	5828	CA			345	4.956	56.594	61.301	1.00 22.72	
ATOM	5830	CB	LEU	В	345	6.100	55.563	61.268	1.00 22.72	C
ATOM	5833	CG	LEU	В	345	7.542	55.885	60.835	1.00 22.71	С
ATOM	5835	CD1				8.243	54.642	60.289	1.00 23.31	С
	5839		LEU			7.591	56.950	59.811		C
MOTA										č
ATOM	5843	С			345	3.789	56.098	62.161	1.00 22.68	
MOTA	5844	0			345	3.644	56.491	63.315	1.00 22.90	0
MOTA	5845	N	GLN	В	346	2.941	55.263	61.577	1.00 22.89	N
ATOM	5847	CA	GLN	В	346	1.715	54.789	62.221	1.00 22.82	С
ATOM	5849	CB			346	0.550	54.784	61.225	1.00 22.68	С
					346	0.687	53.739	60.126	1.00 22.89	Ċ
ATOM	5852	CG								č
ATOM	5855	CD			346	-0.168	53.998	58.906	1.00 22.91	
ATOM	5856	OE1			346	-1.027	54.876	58.899	1.00 25.22	0
ATOM	5857	NE2	GLN	В	346	0.059	53.219	57.874	1.00 22.78	N
MOTA	5860	С	GLN	В	346	1.919	53.394	62.798	1.00 22.78	С
ATOM	5861	0			346	2.836	52.673	62.400	1.00 22.46	0
ATOM	5862	Ŋ			347	1.042	53.025	63.724	1.00 22.81	Ŋ
							51.779	64.471	1.00 22.84	Ĉ
ATOM	5864	CA	VAL		347	1.178				C
MOTA	5866	CB	VAL			0.220	51.775	65.691	1.00 23.00	C
ATOM	5868	CG1	VAL	В	347	-0.117	50.386	66.156	1.00 23.34	C
ATOM	5872	CG2	VAL	В	347	0.876	52.539	66.834	1.00 23.60	C
MOTA	5876	С	VAL	В	347	1.004	50.553	63.575	1.00 22.61	С
ATOM	5877	ŏ			347	1.561	49.473	63.850	1.00 22.18	0
							50.742	62.474	1.00 22.39	N
MOTA	5878	N			348	0.288				
ATOM	5880	CA			348	-0.002	49.652	61.540	1.00 22.40	С
MOTA	5882	CB	GLU	В	348	-1.058	50.089	60.518	1.00 22.76	C
ATOM	5885	CG	GLU	В	348	-2.452	50.344	61.111	1.00 24.13	С
ATOM	5888	CD			348	-2.650	51.716	61.766	1.00 27.04	С
ATOM	5889		GLU			-1.883	52.665	61.519	1.00 28.52	Ō
MOTA	. 5890		GLU			-3.600		62.559	1.00 30.28	0
ATOM	5891	С			348	1.258	49.093	60.860	1.00 21.34	C
MOTA	5892	0	GLU	В	348	1.242		60.369	1.00 20.76	0
ATOM	5893	N			349	2.345		60.901	1.00 20.77	· N
ATOM	5895	CA			349	3.660		60.322	1.00 20.45	С
ATOM	5897	CB			349	4.142		59.376	1.00 20.64	Č
						5.471		58.677	1.00 20.78	Č
ATOM	5900	CG			349					
ATOM	5901	CDI	PHE	В	349	5.748	49.196	58.058	1.00 21.02	С

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ATOM	5903	CE1	PHF '	B 349	6.962	40 000	E7 405	1 00'00
ATOM	5905	CZ		B 349		48.998	57.425	1.00 20.54
ATOM	5907				7.903	50.006	57.374	1.00 19.72
		CE2		B 349	7.641	51.199	57.957	1.00 19.91
MOTA	5909	CD2			6.433	51.401	58.611	1.00 21.36
ATOM	5911	С	PHE :	B 349	4.690	49.228	61.413	1.00 19.62
ATOM	5912	0	PHE :	B 349	5.443	48.274	61.329	1.00 19.67
ATOM	5913	N	ILE :		4.695	50.055	62.444	1.00 19.19
ATOM	5915	CA		B 350.	5.594	49.897	63.577	
ATOM	5917	CB	ILE		5.414			1.00 18.87
ATOM	5919	CG1				51.034	64.548	1.00 18.54
					5.726	52.360	63.858	1.00 17.95
ATOM	5922		ILE		5.383	53.531	64.691	1.00 17.74
ATOM	5926	CG2		B 350	6.334	50.832	65.753	1.00 19.48
ATOM	5930	C	ILE :		5.409	48.581	64.329	1.00 19.09
ATOM	5931	0	ILE :		6.384	47.876	64.572	1.00 19.31
ATOM	5932	N	ASN I	B 351	4.181	48.239	64.704	1.00 19.09
AŤOM	5934	CA	ASN I		3.950	46.965	65.412	1.00 19.26
ATOM	5936	CB	ASN		2.492	46.861	65.878	
ATOM	5939	CG	ASN		2.216			
ATOM	5940		ASN I			47.712	67.152	1.00 20.22
ATOM					3.090	48.471		1.00 21.96
	5941		ASN I		1.007	47.591	67.700	1.00 18.64
ATOM	5944	С	ASN I		4.444	45.666	64.696	1.00 19.13
ATOM	5945	0	ASN 1		5.173	44.873	65.296	1.00 19.31
ATOM	5946	N	PRO 1	352	4.075	45.437	63.440	1.00 18.65
ATOM	5947	CA	PRO I	3 352	4.681	44.364	62.662	1.00 18.12
ATOM	5949	CB	PRO 1	3 352	4.065	44.552	61.266	1.00 18.43
ATOM	5952	CG	PRO I	3 - 352	2.818	45.308	61.446	1.00 18.44
ATOM	5955	CD	PRO 1		2.988	46.109	62.701	
ATOM	5958	C	PRO I		6.207			1.00 19.18
ATOM	5959	Ö	PRO I			44.405	62.573	1.00 18.36
					6.810	43.341	62.449	1.00 17.33
ATOM	5960	N	ILE H		6.825	45.592	62.589	1.00 18.97
ATOM	5962	CA	ILE E		8.288	45.681	62.464	1.00 19.14
ATOM	5964	CB	ILE F		8.774	47.129	62.282	1.00 19.20
ATOM	5966	CG1	ILE E	353	8.540	47.569	60.853	1.00 19.84
ATOM	5969	CD1	ILE E	353	8.603	49.046	60.689	1.00 20.86
ATOM	5973	CG2	ILE E	353	10.270	47.257	62.522	1.00 19.89
ATOM	5977	С	ILE E		8.914	45.071	63.688	1.00 19.17
ATOM	5978	0	ILE E		9.826	44.235	63.586	1.00 19.17
ATOM	5979	N	PHE E		8.403	45.469	64.848	
ATOM	5981	CA	PHE E		8.901			1.00 19.09
ATOM	5983	CB	PHE E		0.501	44.932	66.096	1.00 19.08
ATOM	5986				8.569	45.857	67.270	1.00 18.93
ATOM		CG	PHE E		9.445	47.079	67.300	1.00 19.28
	5987	CD1	PHE E		9.290	48.079	66.355	1.00 20.06
ATOM	5989		PHE E		10.109	49.170	66.355	1.00 20.21
ATOM	5991		PHE E		11.132	49.277	67.298	1.00 19.30
MOTA	5993	CE2	PHE E	354	11.310	48.294	68.222	1.00 18.03
ATOM	5995	CD2	PHE E	354	10.477	47.194	68.215	1.00 19.43
ATOM	5997	С	PHE E	354	8.503	43.477	66.317	1.00 19.16
ATOM	5998	0	PHE E		9.312	42.712	66.838	1.00 19.10
ATOM	5999	N	GLU E		7.319	43.044	65.896	
ATOM	6001	CA	GLU E		7.033			1.00 19.55
ATOM	6003	CB	GLU E	255	5.584	41.602	65.991	1.00 20.22
ATOM	6006	CG				41.249	65.739	1.00 20.39
ATOM			GLU E		5.296	39.739	65.801	1.00 23.59
	6009	CD	GLU E		5.522	39.066	67.171	1.00 27.11
ATOM	6010	OE1	GLU E	355	5.991	37.908	67.182	1.00 28.26
MOTA	6011		GLU E		5.219	39.653	68.243	1.00 28.91
ATOM	6012	Ċ	GLU E		7.942	40.799	65.060	1.00 19.88
ATOM	6013	0	GLU E		8.464	39.773	65.459	1.00 20.45
ATOM	6014	N	PHE E		8.166	41.274	63.848	1.00 19.33
MOTA	6016	CA	PHE E		9.088	40.612	62.932	1.00 19.33
ATOM	6018	СВ	PHE B		9.210	41.408	61.611	
ATOM	6021	CG	PHE B		10.122	40.802		1.00 19.21
						40.00Z	60.606	1.00 18.35
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ATOM	6022	CD1	PHE	В	356	9.882	39.551	60.088	1.00 18.72	: c
ATOM	6024		PHE			10.727	38.969	59.145	1.00 18.09	
ATOM	6026	CZ	PHE			11.821	39.619	58.715	1.00 17.73	
ATOM	6028		PHE		356	12.097	40.874	59.215	1.00 20.41	
ATOM	6030		PHE			11.224	41.485	60.159	1.00 20.15	
MOTA	6032	C	PHE			10.432	40.500	63.603	1.00 19.01	
ATOM	6033	ŏ	PHE			11.023	39.428	63.586	1.00 19.67	
ATOM	6034	N	SER			10.923	41.593	64.200	1.00 18.61	
ATOM	6036	CA	SER			12.296	41.620	64.729	1.00 17.87	
ATOM	6038	CB	SER			12.710	43.013	65.216	1.00 17.62	
ATOM	6041	OG	SER			12.580	43.997	64.238	1.00 15.55	
ATOM	6043	C	SER			12.396	40.664	65.895	1.00 18.01	
ATOM	6044	ŏ	SER			13.426	40.073	66.128	1.00 18.36	5
ATOM	6045	N	ARG			11.324	40.554	66.657	1.00 18.41	. N
ATOM	6047	CA	ARG			11.293	39.684	67.808	1.00 18.89	
ATOM	6049	CB	ARG			10.030	39.931	68.629	1.00 19.21	i c
ATOM	6052	CG	ARG			10.115	41.017	69.672	1.00 20.39	
ATOM	6055	CD	ARG			8.930	41.002	70.639	1.00 23.03	í č
ATOM	6058	NE	ARG			7.661	41.293	69.956	1.00 24.62	2 · Ŋ
ATOM	6060	CZ			358	7.142	42.516	69.770	1.00 25.65	c C
ATOM	6061		ARG			7.758	43.611	70.218	1.00 26.43	
ATOM	6064		ARG			5.992	42.659	69.119	1.00 25.90	
ATOM	6067	С	ARG			11.299	38.249	67.294	1.00 19.2	
ATOM	6068	0			358	12.017	37.381	67.822	1.00 19.2	
ATOM	6069	N			359	10.488	38.008	66.257	1.00 19.38	
ATOM	6071	CA			359	10.382	36.691	65.644	1.00 19.20	
ATOM	6073	CB			359	9.350	36.675	64.528	1.00 19.0	
MOTA	6077	С			359	11.739	36.306	65.125	1.00 19.3	
MOTA	6078	0			359	12.208	35.214	65.409	1.00 19.6	
ATOM	6079	N	MET	В	360	12.387	37.216	64.405	1.00 19.4	6 N
MOTA	6081	CA			360	13.712	36.946	63.853	1.00 20.1	
ATOM	6083	CB	MET	В	360	14.200	38.114	62.979	1.00 20.19	
MOTA	6086	CG	MET	В	360	13.500	38.234	61.638	1.00 20.3	
MOTA	6089	SD	MET	В	360	13.839	36.869	60.559	1.00 20.3	7 s
MOTA	6090	CE	MET	В	360	15.479	37.155	60.204	1.00 23.0	9 C
MOTA	6094	С	MET	В	360	14.739	36.642	64.966	1.00 20.3	8 C
ATOM	6095	0			360	15.699	35.880	64.761	1.00 20.3	3 0
MOTA	6096	N	ARG		361	14.547	37.234	66.137	1.00 20.5	
MOTA	6098	CA	ARG		361	15.459	36.982	67.218	1.00 20.8	
ATOM	6100	CB	ARG		361	15.309	38.010	68.309	1.00 20.9	
ATOM.	6103	CG	ARG			16.316	37.831	69.407	1.00 21.6	
ATOM	6106	CD			361	16.153	38.821	70.511	1.00 23.2	
ATOM	6109	NE	ARG		361	16.708	38.365	71.792	1.00 24.5	
ATOM	6111	CZ			361	16.083	37.582	72.684	1.00 24.2	
ATOM	6112				361			72.477		
MOTA	6115		ARG			16.720	37.283	73.805	1.00 25.6	
MOTA	6118	C			361	15.236	35.595	67.782	1.00 21.4	
MOTA	6119	0			361	16.172	34.957	68.220	1.00 21.2	
MOTA	6120	N			362	14.004	35.111	67.780	1.00 22.1	
ATOM ATOM	6122 6124	CA CB			362 362	13.752 12.261	33.788	68.325	1.00 22.8	
ATOM	6127	CG			362	11.541	33.511	68.464	1.00 23.2	
ATOM	6130	CD			362	10.037	34.326 34.187	69.483 69.364	1.00 24.4	
ATOM	6133	NE			362	9.338			1.00 26.9	
ATOM	6135	CZ			362	8.333	35.435 35.946	69.665 68.954	1.00 28.7 1.00 30.4	
ATOM	6136				362	7.875	35.341	67.860		
ATOM	6139				362	7.780	37.091	69.350	1.00 29.5 1.00 32.9	
ATOM	6142	C			362	14.368	32.709	67.446	1.00 32.9	
ATOM	6143	Õ			362	14.557	31.585	67.890	1.00 22.9	
ATOM	6144	N			363	14.656	33.032	66.195	1.00 23.1	
ATOM	6146	CA			363	15.352	32.090	65.320	1.00 23.0	
										

ATOM	6148	CB	LEU E	≀ 363	15.051	32.383	63 056	1 00 00 00	
ATOM	6151	CG	LEU E		13.746	32.303	63.856	,	
ATOM	6153		LEU E	303			63.325		•
ATOM					13.567	_	61.943	1.00 25.89	
	6157		LEU E		13.789	30.290	63.294	1.00 25.28	
ATOM	6161	С	LEU E		16.855	32.080	65.512	1.00 22.55	
ATOM	6162	0	LEU E	3 3 6 3	17.484	31.128	65.129		•
ATOM	6163	N	GLY E	3 3 6 4	17.424	33.156	66.043		
ATOM	6165	CA	GLY E		18.838	33.217		1.00 22.17	
ATOM	6168	C	GLY E		19.769		66.362		
ATOM	6169	Ö	GLY E			32.980	65.197		. '
ATOM	6170				20.661	32.123	65.278	1.00 20.98	
		N	LEU E		19.561		64.123	1.00 21.69	
ATOM	6172	CA	LEU B	365	20.424	33.680	62.937	1.00 22.03	
. ATOM	6174	CB	LEU B		19.770	34.385	61.742	1.00 22.39	
ATOM	6177	CG	LEU B		18.297	34.184	61.338	1.00 23.57	•
ATOM	6179	CD1	LEU B	365	18.132	34.588	59.929	1.00 24.90	
ATOM	6183		LEU B		17.853	32.769	61.452		
ATOM	6187	С	LEU B		21.827		62 161	1.00 26.03	
ATOM	6188	ŏ	LEU B	365			63.161	1.00 21.97	
ATOM	6189	N			21.973	35.301	63.864	1.00 21.63	
ATOM			ASP B	366	22.852	33.669	62.571	1.00 21.97	
	6191	CA	ASP B		24.214	34.227	62.545	1.00 21.76	•
ATOM	6193	СВ	ASP B		25.300	33.132	62.729	1.00 21.83	
ATOM	6196	CG	ASP B	366	25.210	31.983	61.714	1.00 22.12	
ATOM	6197	OD1	ASP B	366	24.858	32.219	60.531	1.00 23.46	
ATOM	6198	OD2	ASP B	366	25.492	30.794	62.008	1.00 20.18	
ATOM	6199	С	ASP B		24.399	35.040	61.259	1.00 20.18	
ATOM	6200	0	ASP B		23.458	35.232		1.00 21.52	
MOTA	6201	N	ASP B		25.600		60.531	1.00 21.62	
ATOM	6203	CA	ASP B			35.530	60.991	1.00 21.93	
ATOM	6205	CB			25.869	36.363	59.809	1.00 21.96	
ATOM			ASP B		27.304	36.897	59.841	1.00 22.50	
	6208	CG	ASP B	367	27.530	37.937	60.923	1.00 24.91	
ATOM	6209	ODI	ASP B	367	26.560	38.629	61.362	1.00 26.49	
ATOM	6210		ASP B		28.683	38.108	61.382	1.00 28.92	
ATOM	6211	С	ASP B	367	25.714	35.640	58.496	1.00 20.99	
MOTA	6212	0	ASP B	367	25.215	36.193	57.525	1.00 21.18	
MOTA	6213	N	ALA B		26.218	34.423	58.459	1.00 21.18	
ATOM	6215	CA	ALA B	368	26.045	33.556			
ATOM	6217	CB			26.727		57.318	1.00 19.75	
ATOM	6221	c	ALA B			32.212	57.606	1.00 19.33	
ATOM	6222	ŏ	ALA B		24.544	33.338	56.947	1.00 19.49	
ATOM	6223	N			24.174	33.331	55.779	1.00 19.63	
ATOM	6225				23.692	33.136	57.942	1.00 19.20	•
		CA	GLU B		22.302	32.829	57.686	1.00 18.60	
ATOM	6227	СВ	GLU B		21.622	32.259	58.934	1.00 18.76	
ATOM	6230	CG	GLU B	369	22.020	30.797	59.128	1.00 19.93	
ATOM	6233	CD	GLU B	369	21.526	30.131	60.415	1.00 22.09	
ATOM	6234	OE1	GLU B	369	21.206	28.912	60.342	1.00 22.95	
ATOM	6235	OE2	GLU B	369	21.502	30.774	61.499	1.00 21.86	
ATOM	6236	С	GLU B	369	21.643	34.059	57.145	1.00 21.86	•
ATOM	,6237	0	GLU B		20.951	33.977		1.00 17.93	
ATOM	6238	N	TYR B		21.922		56.144	1.00 17.73	
ATOM	6240	CA	TYR B			35.202	57.750	1.00 17.57	
ATOM	6242	CB	TIV D	370	21.345	36.470	57.298	1.00 18.20	
ATOM	6245		TYR B		21.750	37.623	58.220	1.00 18.25	
		CG	TYR B	3/0	20.713	37.978	59.225	1.00 17.86	
ATOM	6246	CDI	TYR B	370	20.874	37.641	60.557	1.00 20.22	
ATOM	6248		TYR B		19.902	37.958	61.496	1.00 21.95	
MOTA	6250	CZ	TYR B		18.759	38.609	61.082	1.00 21.88	
ATOM	6251		TYR B		17.798	38.912	61.996	1.00 24.56	
MOTA	6253		TYR B		18.592	38.960	59.766	1.00 24.56	•
MOTA	6255		TYR B		19.568	38.636	58.849		
ATOM	6257		TYR B		21.783	36.826		1.00 18.17	
ATOM	6258		TYR B		21.703	37.330	55.894	1.00 18.62	
MOTA	6259	N	ALA B	371	23.059		55.095	1.00 18.31	
					23.033	36.586	55.625	1.00 19.41	

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2004	CO C 2	C 7	777 F	271	23.651	36.869	54.332	1.00 19.77	C
ATOM	6261 6263		ALA E		25.101	36.520	54.355	1.00 19.77	C
MOTA	6267		ALA E		22.942	36.048	53.280	1.00 20.15	č
MOTA MOTA	6268	0	ALA I		22.403	36.600	52.334	1.00 20.44	Ö
ATOM	6269	Ŋ		372	22.926	34.733	53.464	1.00 20.08	N
MOTA	6271	CA	LEU I		22.245	33.855	52.542	1.00 20.52	Ċ
ATOM	6273	CB		B 372	22.332	32.416	53.037	1.00 20.24	Ċ
ATOM	6276	CG		в 372	23.674	31.705	52.814	1.00 20.48	С
ATOM	6278		LEU I		23.645	30.402	53.579	1.00 22.12	С
ATOM	6282		LEU		23.996		51.368	1.00 19.23	С
ATOM	6286	C		В 372	20.771	34.266	52.285	1.00 21.35	С
ATOM	6287			B 372	20.262	34.155	51.152	1.00 21.29	0
ATOM	6288	N		в 373	20.091	34.757	53.322	1.00 21.78	N
ATOM	6290	CA	LEU I	B 373	18.669		53.218	1.00 21.88	C
ATOM	6292	CB		в 373	18.099		54.605	1.00 22.34	С
MOTA	6295	CG		в 373	16.631		54.870	1.00 24.27	C
MOTA	6297			в 373	16.240		54.489	1.00 25.08	C
MOTA	6301			в 373	16.434		56.348	1.00 26.33	C
MOTA	6305	C		B 373	18.492		52.400	1.00 21.53	C
MOTA	6306	0		B 373	17.525		51.691	1.00 21.68	0
ATOM	6307	N		B 374	19.451		52.506	1.00 21.20	N
ATOM	6309	CA		B 374	19.438		51.717	1.00 21.25	C C
ATOM	6311	CB		B 374	20.474		52.290	1.00 21.83 1.00 22.17	C
ATOM	6313			B 374	19.942 21.057		53.609 54.545	1.00 22.17	C
ATOM	6316 6320			B 374 B 374	20.798		51.287	1.00 23.01	Č
MOTA MOTA	6324	CGZ		B 374	19.701		50.244	1.00 20.32	Č
ATOM	6325	0		B 374	19.026		49.384	1.00 20.43	Õ
MOTA	6326	N		B 375	20.668		49.962	1.00 19.75	Ŋ
ATOM	6328	CA	ALA		20.935		48.599	1.00 19.72	С
MOTA	6330	CB		B 375	22.103		48.605	1.00 19.65	C
ATOM	6334	C		B 375	19.717		47.975	1.00 20.06	С
ATOM	6335	0		B 375	19.323	36.387	46.843	1.00 19.99	0
MOTA	6336	N	ILE	B 376	19.106	35.208	48.731	1.00 20.10	N
ATOM	6338	CA	ILE	B 376	17.867		48.295	1.00 19.73	С
MOTA	6340	CB	ILE		17.372		49.367	1.00 19.55	С
ATOM	6342	CG1	ILE		18.335		49.481	1.00 20.36	C
ATOM	6345	CD1		B 376	18.102		50.697	1.00 20.84	C
MOTA	6349			B 376	15.972		49.009	1.00 18.87	C
MOTA	6353	C		B 376	16.794		48.008	1.00 19.34	C
ATOM	6354	0		B 376	16.097		47.002	1.00 19.00 1.00 19.36	N
MOTA	6355	N		B 377	16.669 15.673		48.911 48.774	1.00 19.30	C
MOTA MOTA	6357 6359	CA CB		B 377	15.687		49.985	1.00 19.72	Č
ATOM	6362	CG		B 377	14.531		49.975		č
MOTA	6363			B 377	14.601		49.327	1.00 21.54	ő
MOTA	6364			B 377	13.454		50.682	1.00 19.64	N
ATOM	6367	C	ASN	В 377	15.876		47.501	1.00 19.83	C
ATOM	6368	Ö		B 377	14.899		46.841	1.00 19.63	0
MOTA	6369	N		B 378	17.133		47.138	1.00 19.53	N
ATOM	6371	CA	ILE	в 378	17.402		45.947	1.00 19.39	С
MOTA	6373	СВ		B 378	18.892		45.864	1.00 19.13	С
MOTA	6375			в 378	19.253	40.988	46.873	1.00 18.64	C
MOTA	6378			B 378	20.75		47.216	1.00 18.30	C
MOTA	6382			B 378	19.21		44.502	1.00 20.08	C
MOTA	6386	С		B 378	16.94		44.702	1.00 19.44	C
MOTA	6387	0		B 378	16.23		43.843	1.00 19.04	0
ATOM	6388	N		B 379	17.362		44.636		N
ATOM	6390	CA		B 379	17.05		43.510		. C
ATOM	6392	CB		B 379	18.160		43.372		C
ATOM	6395	CG	PHE	В 379	19.480	36.135	43.009	1.00 18.93	C

ATOM	6396		PHE E			20.620	35.781	43.693	1.00 19.79
ATOM ATOM	6398	CE1				21.850	36.338	43.339	1.00 19.77
ATOM	6400	CZ	PHE I			21.926	37.253	42.267	1.00 18.12
ATOM	6402 [°] 6404	CE2 CD2				20.803	37.598	41.595	1.00 16.98
ATOM	6406	CDZ			•	19.593	37.055	41.963	1.00 19.16
ATOM	6407	Ö	PHE E	3 379		15.633 15.442	35.985	43.578	1.00 21.45
ATOM	6408	N	SER I			14.638	34.813	43.424	
ATOM	6410	CA	SER E			13.261	36.820 36.399	43.771 43.772	1.00 22.84
ATOM	6412	СВ	SER E			12.444	37.291	44.720	1.00 23.88 1.00 23.56
ATOM	6415	OG	SER E			12.812	37.045	46.042	1.00 23.36
MOTA	6417	С	SER E			12.754	36.575	42.363	1.00 23.12
ATOM	6418	0	SER E			12.582	37.697	41.901	1.00 25.21
ATOM	6419	N	ALA E			12.464	35.478		1.00 26.26
ATOM	6421	CA	AĻA E			12.124	35.551	40.246	1.00 26.69
ATOM	6423	CB	ALA E			12.230	34.178	39.572	1.00 26.50
ATOM ATOM	6427 6428	C	ALA E			10.758	36.168	39.990	1.00 26.86
ATOM	6429	O N	ALA E			10.514	36.644	38.869	1.00 27.16
ATOM	6431	CA	ASP E			9.898 8.498	36.202		1.00 26.82
ATOM	6433	CB	ASP E			7.628	36.644 35.804	40.851	1.00 26.90
ATOM	6436	CG	ASP E			7.814	36.137	43.155	1.00 27.49 1.00 30.39
ATOM	6437	OD1	ASP E	382		8.963	36.427	43.548	1.00 30.39
ATOM	6438	OD2	ASP E	382		6.874	36.168	43.958	1.00 35.98
ATOM	6439	С	ASP E			8.214	38.092	41.223	1.00 26.15
ATOM	6440	0	ASP E			7.088	38.453	41.531	1.00 25.45
ATOM	6441	N	ARG E			9.244	38.923	41.215	1.00 25.85
ATOM ATOM	6443	CA	ARG E			9.036	40.342	41.392	1.00 25.29
ATOM	6445 6448	CB CG	ARG E			10.356	41.064	41.574	1.00 25.32
ATOM	6451	CD	ARG B			11.181 10.514	40.580	42.713	1.00 24.29
ATOM	6454	NE	ARG B			11.504	40.697 40.573	44.041	1.00 23.33
ATOM	6456	CZ	ARG B			11.225	40.635	45.118 46.406	1.00 22.46 1.00 20.26
ATOM	6457	NH1	ARG B	383		9.988	40.849	46.836	1.00 20.28
MOTA	6460	NH2	ARG B	383		12.198	40.476	47.272	1.00 10.03
ATOM	6463	С	ARG B			8.349	40.918	40.181	1.00 24.76
ATOM	6464	0	ARG B			8.384	40.356	39.115	1.00 25.12
ATOM ATOM	6465	N	PRO B			7.704	42.048	40.343	1.00 24.53
ATOM	6466 6468	CA CB	PRO B			7.124	42.734	39.196	1.00 24.04
ATOM	6471	CG	PRO B			6.475 6.155	43.975	39.831	1.00 24.07
ATOM	6474	CD	PRO B			7.386	43.540 42.734	41.218	1.00 24.47
ATOM	6477	C	PRO B			8.165	43.135	41.609 38.164	1.00 24.83 1.00 23.45
MOTA	6478	0	PRO B			9.263	43.545	38.519	1.00 23.45
MOTA	6479	N	ASN B	385		7.769	43.018	36.902	1.00 23.00
ATOM	6481	CA	ASN B			8.504	43.474	35.720	1.00 22.84
ATOM	6483	CB	ASN B			8.692	45.002	35.670	1.00 23.07
ATOM ATOM	6486 6487	CG	ASN B	385		7.495	45.783	36.186	1.00 23.82
ATOM	6488	ND3	ASN B	385		7.558	46.358	37.253	1.00 27.50
ATOM	6491	C	ASN B			6.425	45.831	35.424	1.00 24.98
ATOM	6492	ŏ	ASN B			9.842 10.709	42.767 43.305	35.469	1.00 22.54
ATOM	6493	N	VAL B			10.709	43.303	34.761 36.003	1.00 22.77
ATOM '	6495	CA	VAL B	386		11.217	40.796	35.662	1.00 21.82 1.00 21.30
MOTA	6497	CB	VAL B	386		11.578	39.773	36.744	1.00 21.30
ATOM	6499		VAL B	386		12.626	38.766	36.233	1.00 20.95
ATOM	6503		VAL B			12.092	40.509	37.997	1.00 21.14
ATOM	6507	C	VAL B			10.979	40.156	34.287	1.00 20.86
ATOM ATOM	6508 6509	N O	VAL B			9.952	39.549	34.038	1.00 21.19
ATOM	6511	CA	GLN B			11.918	40.338	33.381	1.00 20.10
			ט אוני	J0 /		11.739	39.932	32.010	1.00 19.47

ATOM	6513	СВ	GLN	R	387	1	2.281	41.018	31.111	1 00	19.47		С
ATOM	6516	CG	GLN		387		1.517	42.299	31.223		19.97		c
ATOM	6519	CD	GLN		387		2.162	43.357	30.380		21.09		c
ATOM	6520	OE1	GLN		387		2.343	43.165	29.181		22.44		ŏ
ATOM	6521	NE2	GLN		387		2.537	44.467	30.995				
ATOM	6524	C	GLN		387		2.436				22.01		N
	6525							38.613	31.725		18.93		С
ATOM		0	GLN		387		2.212	38.015	30.699		19.67		0
ATOM	6526	N	GLU		388		3.279	38.165	32.633		18.08		N
ATOM	6528	CA	GLU		388		3.932	36.895	32.503		17.71		С
ATOM	6530	CB	GLU		388		5.354	37.131	32.026		17.81		С
ATOM	6533	CG	GLU		388		5.468	37.453	30.550		17.82		С
MOTA	6536	CD	GLU		388		6.918	37.440	30.101		18.15		С
ATOM	6537	OE1	GLU		388		7.571	38.493	30.302	1.00	17.11		0
ATOM	6538	OE2			388		7.405	36.380	29.585	1.00	15.67		0
MOTA	6539	С	GLU		388		.3.931	36.230	33.876	1.00	17.82		С
MOTA	6540	0			388	1	4.963	36.087	34.494	1.00	17.76		0
ATOM	6541	N	PRO	В	389	1	2.768	35.841	34.374	1.00	18.13		N
MOTA	6542	CA	PRO	В	389	1	2.679	35.301	35.720	1.00	18.15		С
MOTA	6544	CB	PRO	В	389	1	1.201	35.054	35.919	1.00	17.76		C
MOTA	6547	CG	PRO	В	389		0.546	35.280	34.664		17.88		Ĉ
MOTA	6550	CD	PRO		389		1.463	35.882	33.704		18.53		Ċ
ATOM	6553	С			389		3.468	34.024	35.840		19.05		Č
ATOM	6554	0	PRO		389		4.147	33.863	36.848		19.55		ŏ
MOTA	6555	N	GLY		390		3.399	33.155	34.835		19.58		N
ATOM	6557	CA			390		4.282	32.013	34.722		19.86		N C
ATOM	6560	C			390		5.729	32.242	35.110		20.83		č
ATOM	6561	ŏ	GLY		390		6.320	31.440	35.846		22.05		õ
ATOM	6562	Ň			391		6.339	33.316	34.636		21.12		N
ATOM	6564	CA			391		7.744	33.569	34.983		21.55		
ATOM	6566	CB			391		.8.313	34.704	34.121				C
ATOM	6569	CG			391		8.149	34.704	32.611		21.64		C
ATOM	6572										22.19		C
		CD			391		9.056	33.468	32.031		22.52		С
ATOM	6575	NE			391		20.455	33.858	32.107		23.38		N
ATOM	6577	CZ			391		21.458	33.104	31.677		23.56		С
ATOM	6578		ARG				1.215	31.909	31.160		24.93		N
ATOM	6581		ARG				22.705	33.537	31.757		22.82		N
ATOM	6584	C			391		7.912	33.933	36.469		22.06		С
MOTA	6585	0			391		.8.965	33.784	37.055		22.01		0
ATOM	6586	N			392		.6.865	34.470	37.060		23.06		N
ATOM	6588	CA			392		.6.912	34.882	38.449		23.96		С
ATOM	6590	CB	VAL		392		.5.765	35.907	38.779		23.94		С
ATOM	6592		VAL				.5.793	36.298	40.243		24.94		С
MOTA	6596		VAL				.5.894	37.149	37.933		22.66		С
MOTA	6600	C			392		.6.838	33.614	39.309		24.69		С
ATOM	6601	0		-	392		.7.721		40.123		23.97		0
MOTA	6602	N			393		5.803	32.798	39.092		25.88		N
ATOM	6604	CA			393		.5.709	31.469	39.730		27.13		С
ATOM	6606	CB			393		.4.635	30.644	39.068		27.48		С
ATOM	6609	CG			393		4.022	29.585	39.964		31.61		С
MOTA	6612	CD			393		.2.669	29.130	39.408	1.00	38.64		С
ATOM	6613		GLU				1.641	29.489	40.026	1.00	42.36		0
MOTA	6614		GLU				.2.622	28.452	38.331		42.52		0
	6615	С			393		.7.008	30.636	39.738	1.00	26.81		С
ATOM	6616	0			393		.7.300	29.955	40.715		27.38		0
ATOM	6617	N			394	1	.7.769	30.686	38.652	1.00	26.35		N
ATOM	6619	CA			394	1	.8.997	29.909	38.526		25.69		С
MOTA	6621	CB	ALA	В	394	1	9.486	29.946	37.113		25.51		C
ATOM	6625	С	ALA	В	394	2	20.073	30.455	39.462		25.37		Č
MOTA	6626	0			394	2	20.877	29.703	40.026		25.18		ō
ATOM	6627	N			395		20.112	31.768	39.607		24.61		N
ATOM	6629	CA			395		20.986	32.361	40.601		24.14		C
													
												· ·	_

A TO OM	6631	CD	LEU	ъ	205	21 160	22 040	40 305	1 00	00 00		_
ATOM		CB				21.169	33.848	40.305		23.88		C
ATOM	6634	CG	LEU			21.908	34.145	39.009		24.05		C
ATOM	6636		LEU			21.928	35.653	38.796		25.55		C
ATOM	6640		LEU			23.326	33.613	39.026		23.40		С
MOTA	6644	C	LEU			20.493	32.130	42.061		23.52		C
ATOM ·	6645	0	LEU			21.317	32.002	42.968		23.09		0
ATOM	6646	N	GLN			19.180	32.047	42.283		22.77		N
MOTA	6648	CA	GLN			18.659	31.911	43.649		22.84		С
MOTA	6650	CB	GLN			17.137	32.134	43.685		22.46		С
MOTA	6653	CG	GLN			16.597	32.351	45.121		21.86		С
ATOM	6656	CD	GLN			15.093	32.230	45.224		22.07		C
ATOM	6657		GLN			14.539	31.210	44.849		25.24		,. O
MOTA	6658	NE2				14.430	33.254	45.748		19.98		N
ATOM	6661	C	GLN			18.961	30.539	44.271		23.28		C
ATOM	6662	0	GLN			19.360	30.409	45.433		22.64		0
ATOM	6663	N	GLN			18.752	29.511	43.465		24.24		N
MOTA	6665	CA	GLN			18.766	28.124	43.918		24.67		C ·
MOTA	6667	CB.	GLN			18.568	27.206	42.715		25.50	•	C
ATOM	6670	CG	GLN			18.448	25.747	43.063		28.77		C
ATOM	6673	CD	GLN			17.262	25.164	42.382		33.24		Ċ
ATOM	6674		GLN			17.224	25.139	41.143		36.36		0
ATOM	6675	NE2				16.238	24.763	43.166		36.14		N
ATOM	6678	C	GLN			20.023	27.708	44.690		23.47		C
ATOM	6679	0	GLN			19.885	27.115	45.740		23.28		0
ATOM	6680	N	PRO			21.232	27.960	44.178		22.21		N
ATOM	6681	CA			398	22,429	27.606	44.954		22.07		C
ATOM	6683	CB			398	23.595	28.111	44.067		21.81		C
ATOM	6686	CG	PRO			23.038	28.253	42.719		20.81		C
ATOM	6689	CD			398	21.588	28.535	42.866		21.52	•	C
ATOM	6692	C.	PRO		398	22.450	28.206	46.397		21.66		C
ATOM	6693	0				22.887	27.547	47.341		21.24		0
ATOM .	.6694	N			399.	21.944	29.421	46.554		21.10		N
ATOM	6696	CA			399	21.896	30.073	47.868		20.92		C
ATOM ATOM	6698 6701	CB CG			399 399	21.568	31.574	47.702		21.19		C
ATOM	6702	CD1				22.698 22.592	32.361 32.808	47.027		20.24		C
ATOM	6704	CE1				23.608	33.500	45.725 45.132		18.82 20.34		C
ATOM	6704	CZ			399	24.768	33.746	45.132		20.34		C
ATOM	6707	OH			399	25.843	34.443	45.306		21.63		0
MOTA	6709	CE2			399	24.886	33.298	47.127		21.36		Ċ
ATOM	6711	CD2			399 '	23.863	32.624	47.710		20.46		Ċ.
ATOM	6713	C			399	20.898	29.419	48.815		20.40		c
ATOM	6714	ŏ	TYR		399	21.106	29.374	50.016		20.38		ő
ATOM	6715	N			400	19.798	28.940	48.258		20.03		N
ATOM	6717	CA	VAL			18.800	28.185	49.011		19.24		Č
ATOM	6719	СВ	VAL			17.455	28.000	48.185		18.97		č
ATOM	6721		VAL			16.494	27.023	48.871		17.82		č
ATOM	6725		VAL			.16.786	29.357	47.918		17.65		č
ATOM	6729	С			400	19.392	26.843	49.403		19.00		č
ATOM	6730	0			400	19.239	26.442	50.526		19.25		ŏ
ATOM	6731	N			401	20.066	26.165	48.482		18.97		· N
MOTA	6733	CA	GLU			20.715	24.902	48.779		19.97		Ĉ
MOTA	6735	CB			401	21.390	24.353	47.523		20.59		Č.
MOTA	6738	CG			401	20.569	23.320	46.786		25.37		č
ATOM	6741	CD			401	20.983	23.073	45.329		32.52		č
MOTA	6742	OE1			401	20.167	22.424	44.643		37.24		ō
MOTA	6743	OE2			401	22.083	23.500	44.846		37.72		. 0
ATOM	6744	С			401	21.771	25.081	49.890		19.60		C
MOTA	6745	0			401	21.978	24.222	50.745	1.00	18.58		0
MOTA	6746	N			402	22.438	26.227	49.833		19.35	•	N
MOTA	6748	CA	ALA	В	402	23.497	26.565	50.741	1.00	18.74	•	·C

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	6755 67556 67556 67556 67676 67765 677779 677779 67798 67798 67798 67798 67798 67998 67998 67998 67998 67998 67998 67998 67998 68813 68813 68824	CD2 C O N CA CB CG CD1 CD2 C O N CA CB CC O CC C	ALA LEUUUUUUUUUUUURRRRRRRRRRRRRRRRRRRRRRRRR	8888888888888888888888888888888888888	403 404 404 404 404 404 405 405 406 406 406 406 406	24.162 22.940 23.481 21.877 21.169 20.047 19.304 20.264 18.281 20.608 20.771 19.958 19.958 17.465 17.674 20.645 20.527 21.765 22.908 23.608 24.165 24.266 24.266 24.266 24.266 24.270 26.859 26.130 26.751 24.771 24.141 23.358	30.234 26.361 26.063 25.561 24.242 23.431 22.043 22.023 21.505 23.512 23.151	50.273 52.143 53.102 53.537 54.639 55.253 54.261 55.253 54.261 55.253 54.368 52.7991 53.668 52.7991 53.668 52.7991 53.668 53.668 53.668 53.668 53.668 54.335 55.338 56.238 56.238 56.238 56.238 57.337 57.337 58.3491 57.3492 57	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	19.13 18.23 17.98 17.57 17.83 17.84 16.31 15.60 15.33 18.18 16.92 19.14 19.76 19.91 21.43 22.46 21.66 19.98 20.33 20.53 21.05 21.36 23.07 21.34 21.50 21.34 21.50 21.34 21.65 21.34 21.65 21.34 21.65 21.34 21.65 21.34 21.65 21.34 21.65 21.34 21.65 21.34 21.65 21.34 21.65 21.34 21.65 21.34 21.65 21.34 21.65 21.34 21.65 21.34 21.65	00010000000000000000000000000000000000
ATOM ATOM	6825 6826	O N			406 407	23.952 22.033	24.666 25.222	58.803 57.753		22.50 22.60	C 0
ATOM	6828	CA	THR	В	407	21.106	24.979	58.893		23.33	N C
ATOM	6830	CB	THR			19.612	25.355	58.532	1.00	23.21	C
ATOM ATOM	6832	OG1		В	407	19.223	24.720	57.311	1.00	21.25	0
ATOM	6834 6838	CG2	THR THR			19.423 21.088	26.847	58.264		22.50	С
ATOM	6839	ŏ	THR		407	20.968	23.534 23.288	59.395 60.576	1.00	24.32 23.72	C
ATOM	6840	N	ARG			21.135	22.598	58.464		25.82	O N
ATOM ATOM	6842	CA	ARG			21.304	21.195	58.769	1.00	27.43	C
ATOM	6844 6847	CB CG	ARG		408 408	21.590	20.438	57.472		28.12	С
ATOM	6850	CD	ARG			20.474 20.854	19.593 18.649	56.985 55.855		31.35 36.14	C
MOTA	6853	NE	ARG	В	408	19.859	17.586	55.832		40.97	C N
ATOM	6855 6856	CZ	ARG			18.659	17.664	55.248	1.00	44.02	Č
ATOM ATOM	6856 6859	NHJ	ARG ARG	B	408 409	18.292	18.752	54.556	1.00	43.40	N
ATOM	6862	C	ARG			17.831 [°] 22.499	16.616 20.970	55.341 59.680		45.66	N
ATOM	6863	ō	ARG	В	408	22.448	20.370	60.656		27.90 27.33	C.
ATOM	6864	N	ILE	В	409	23.600	21.602	59.303		28.65	O N
MOTA MOTA	6866 6868	CA	ILE			24.874	21.315	59.925	1.00	29.43	C
ATOM	6868 6870	CB CG1	ILE	B	409	26.031	21.700	58.981		29.63	C
ATOM	6873	CD1	ILE	Б	409	26.238 27.234	20.585 20.919	57.942 56.829		30.42	C
ATOM	6877		ILE			27.305	21.931	59.766		31.02 29.94	C
						 					C

ATOM ATOM	6881 6882	C 0	ILE ILE		409 409	24.974 25.365	21.995 21.354	61.286 62.257		29.71 29.24				C
ATOM	6883	N			410	24.610	23.279	61.339		30.37				N
ATOM	6885	CA			410	24.637	24.068	62.575		30.83				Ĉ
ATOM	6887	CB			410	24.243	25.526	62.291		31.05				č
ATOM.	6890	CG			410	24.126	26.442	63.533	1.00	31.09				Ċ
ATOM	6893	CD			410	23.712	27.862	63.142	1.00	31.05				Č
ATOM	6896	CE	LYS	В	410	23.132	28.662	64.308	1.00	30.78				С
ATOM	6899	NZ			410	23.280	30.140	64.067		30.57			•	N
ATOM ATOM	6903 6904	C			410	23.699	23.487	63.624		31.13				, C
ATOM	6905	O N			410 411	24.025	23.455	64.812		31.02				0
ATOM	6907	CA			411	22.530 21.484	23.037	63.175		31.60				N
ATOM	6909	CB			411	20.398	22.548 23.626	64.071		32.04				C
ATOM	6912	CG	ARG	В	411	20.909	24.977	64.262 64.766		32.46				C
ATOM	6915	CD			411	21.177	25.100	66.289		35.17 39.41				C
ATOM	6918	NE			411	20.672	26.400	66.733		44.08		: ,		N .
ATOM .	6920	CZ			411	19.422	26.642	67.180		47.09		•		C
MOTA	6921		ARG			18.531	25.648	67.319		47.14	•			N
ATOM	6924	NH2	ARG			19.065		67.511		47.17				· N
ATOM	6927	С			411	20.855	21.246	63.556		31.31		•		Ĉ
ATOM	6928	0			411	19.684	21.237	63.219		30.81				ō
ATOM	6929	N				21.608	20.143	63.547		31.11				N
ATOM	6930	CA			412	21.108	18.848	63.040		31.04				С
ATOM	6932	CB			412	22.198	17.853	63.471		31.06				С
ATOM ATOM	6935 6938	CG			412	23.020	18.585	64.489		31.09				С
ATOM	6941	CD			412	22.979	20.022	64.073		31.04				С
ATOM	6942	0			412 412	19.764	18.424	63.622		30.98				С
ATOM	6943	N.			413	18.990 19.487	17.774	62.924		30.55				0
ATOM	6945	CA			413	18.318	18.838 18.385	64.857		31.37				N
ATOM	6947	CB			413	18.699	18.182	65.608 67.085		31.76 31.90				C
ATOM	6950	CG			413	19.976	17.345	67.302		32.92				C
ATOM	6953	CD			413	19.728	15.837	67.190		34.63				C.
ATOM	6954	OE1	GLN			19.739	15.251	66.089		33.84				0
ATOM	6955	NE2	GLN	В	413	19.501	15.205	68.339		36.01				N
ATOM	6958	С	GLN			17.098	19.310	65.515		31.52				
MOTA	6959	0	GLN			16.098	19.054	66.177		31.68				Ö
ATOM	6960	N	ASP			17.171	20.364	64.706		31.28				Ň
ATOM	6962	CA	ASP			16.031	21.264	64.510		31.37				Ĉ
MOTA	6964	CB	ASP			16.344	22.671	65.012	1.00	31.36				С
ATOM ATOM	6967 6968	CG	ASP			15.105	23.531	65.122		33.05				С
ATOM	6969		ASP ASP			14.044	23.162	64.562		35.59				0
ATOM	6970	C	ASP			15.095 15.601	24.602	65.757		35.48				0
ATOM	6971	ŏ	ASP			15.951	21.326 22.256	63.049 62.313		31.09				C
ATOM	6972	N	GLN			14.804	20.342	62.651		31.09				0
ATOM	6974	CA	GLN			14.387	20.190	61.256		30.85				N
ATOM	6976	СВ	GLN			13.764	18.790	61.032		31.09				C
ATOM	6979	CG	GLN	В	415	14.780	17.634	60.807		33.66				C
ATOM	6982	CD	GLN	В	415	15.899	17.986	59.796		38.47				. C
ATOM	6983	OE1	GLN	В	415	17.104	17.943	60.134		41.48				Ö
ATOM	6984	NE2	GLN	В	415	15.504	18.353	58.566		40.87				N
ATOM	6987	C	GLN			13.440	21.313	60.775		29.62				Ĉ
ATOM	6988	0	GLN			13.273	21.495	59.551		29.23				ŏ
ATOM	6989	N	LEU	В	416	12.854	22.063	61.724	1.00	28.51				N
ATOM ATOM	6991	CA	LEU	B	416	11.926	23.172	61.412		27.87				С
ATOM	6993 6996	CB CG	LEU LEU	Þ	416	10.832	23.271	62.475		27.63				С
ATOM	6998		LEU	Þ	410	9.753	22.197	62.482		27.17				· C
ATOM	7002	CD2	LEU	В	416	8.690 9.154	22.614 21.951	63.488		26.60				C
				_	-10	2.134	CT. 33T	61.090	1.00	26.52				· C

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ATOM	7006	С	LEU	В	416	12.557	24.560	61.301	1.00 27.40	٠
ATOM	7007									
		0	LEU			11.872	25.525	60.974	1.00 27.02	2
ATOM	7008	N	ARG	В	417	13.847	24.678	61.574	1.00 27.00	
MOTA	7010	CA	ARG		417	14.467				
							26.003	61.585	1.00 26.48	
ATOM	7012	CB	ARG	В	417	15.822	25.986	62.321	1.00 26.93	3 C
ATOM	7015	CG	ARG	В	417	16.894	26.860	61.699	1.00 27.72	
ATOM	7018	CD								
			ARG			18.315	26.647	62.233	1.00 28.01	L C
ATOM	7021	NE	ARG	В	417	18.987	27.942	62.348	1.00 26.38	
ATOM	7023	CZ	ARG			18.760				
							28.798	63.305	1.00 23.60	
ATOM	7024	NHT	ARG	В	417	17.913	28.490	64.272	1.00 23.64	l N
ATOM	7027	NH2	ARG	В	417	19.387	29.956	63.287	1.00 23.29	_
ATOM										
	7030	С	ARG			14.591	26.515	60.159	1.00 25.26	5 C
ATOM	7031	0	ARG	В	417	14.311	27.673	59.905	1.00 25.17	7 0
ATOM	7032	N	PHE			14.991	25.657			
								59.230	1.00 23.86	
MOTA	7034	CA	PHE	В	418	15.044	26.080	57.839	1.00 23.32	? C
ATOM	7036	CB	PHE	B	418	15.593	24.980	56.956	1.00 23.41	
ATOM	7039									
		CG	PHE			15.727	25.371	55.529	1.00 24.28	3 C
ATOM	7040	CD1	PHE	В	418	16.458	26.480	55.180	1.00 25.62	2 C
MOTA	7042		PHE			16.607	26.847			
								53.871	1.00 28.16	
ATOM	7044	cz	PHE	В	418	16.022	26.090	52.868	1.00 29.91	C
ATOM	7046	CE2	PHE	В	418	15.286	24.965	53.207	1.00 28.48	
ATOM	7048		PHE							
						15.137	24.618	54.538	1.00 26.82	
AŢOM	7050	С	PHE	В	418	13.697	26.561	57.282	1.00 23.02	C C
ATOM	7051	0	PHE	В	418	13.657	27.627	56.697		
MOTA	7052		PRO						1.00 22.33	
		N				12.612	25.783	57.429	1.00 22.91	N
ATOM	7053	ÇA	PRO	В	419	11.284	26.233	57.016	1.00 22.93	3 C
ATOM	7055	CB	PRO	R	419	10.349	25.107	57.508		
									1.00 22.95	
MOTA	7058	CG	PRO			11.155	23.916	57.474	1.00 22.86	S C
ATOM	7061	CD	PRO	В	419	12.530	24.400	57.931	1.00 23.56	
ATOM	7064	С	PRO			10.900				
							27.544	57.635	1.00 23.02	
ATOM	7065	0	PRO			10.437	28.399	56.875	1.00 22.94	0
ATOM	7066	N	ARG	В	420	11.114	27.717	58.942	1.00 23.41	-
ATOM	7068	CA	ARG							_,
						10.786	28.985	59.603	1.00 24.16	
ATOM	7070	CB	ARG	В	420	11.108	28.972	61.081	1.00 24.28	C
ATOM	7073	CG	ARG	В	420	10.080	28.246	61.896	1.00 26.85	
ATOM	7076									
		CD	ARG		420	10.218	28.401	63.384	1.00 30.77	' C
MOTA	7079	ΝE	ARG	В	420	9.654	27.233	64.062	1.00 34.79	N
ATOM	7081	CZ	ARG		420	10.346	26.168	64.516		
									1.00 38.50	
ATOM	7082		ARG		420	11.681	26.086	64.397	1.00 39.26	N
ATOM	7085	NH2	ARG	В	420	9.682	25.163	65.106	1.00 39.37	
ATOM	7088	С	ARG			11.537				
							30.103	58.952	1.00 24.82	
ATOM	7089	0	ARG	В	420	. 10.989	31.189	58.807	1.00 26.27	· · O
ATOM	7090	N	MET	В	421	12.776	29.845	58.530	1.00 24.91	_
ATOM	7092	CA	MET			13.553	30.868			
								57.843	1.00 25.26	Ç
ATOM	7094	CB	MET			14.970	30.397	57.577	1.00 25.40	C
ATOM	7097	CĢ	MET	В	421	15.826	30.434	58.849	1.00 27.21	•
MOTA	7100		MET	_ D	121					
		SD				17.544	30.165	58.566	1.00 27.35	
ATOM	7101	CE	MET			17.757	31.547	57.546	1.00 30.33	C
ATOM	7105	С	MET	В	421	12.898	31.328	56.559	1.00 25.31	ŏ
MOTA	7106	Ō								
			MET			12.606	32.520	56.412	1.00 24.94	0
ATOM	7107	N	LEU	В	422	12.655	30.387	55.642	1.00 25.81	N
ATOM	7109	CA	LEU :			11.937	30.683	54.389		
MOTA	7111								1.00 26.03	
		CB	LEU			11.675	29.424	53.544	1.00 25.89	С
ATOM	7114	CG	LEU :	В	422	12.856	28.593	53.058	1.00 26.90	
MOTA	7116		LEU			12.349				
							27.425	52.241	1.00 28.42	
MOTA	7120		LEU :			13.830	29.394	52.258	1.00 27.83	С
ATOM	7124	С	LEU :	В	422	10.601	31.383	54.677	1.00 25.93	
MOTA	7125	ō	LEU							
						10.209	32.268	53.919	1.00 26.08	0
MOTA	7126	N	MET :	В	423	9.915	31.017	55.766	1.00 25.24	N
ATOM	7128	CA	MET :			8.633	31.637	56.062	1.00 25.20	
	7130	CB	MET							
-11-01-1	. / 1.30	CD	MET :	0	443	7.953	30.976	57.263	1.00 26.12	С
										

ATOM	7133	CG	MET	В	423	7.525	29.546	57.077	1.00 29.14	С
ATOM	7136				423	6.110	29.354	56.027	1.00 33.88	Š
ATOM	7137	CE	MET		423	5.398	27.865	56.718	1.00 31.87	Č
ATOM	7141	C	MET			8.812	33.130	56.364	1.00 24.01	č
ATOM	7142	Ö	MET			7.873	33.891	56.259	1.00 24.04	Õ
ATOM	7143	N	LYS			9.993	33.557	56.780	1.00 22.48	N
ATOM	7145	CA	LYS			10.208	34.982	56.972	1.00 22.46	
ATOM	7147	CB	LYS		424					
ATOM	7150	CG	LYS		424	11.478	35.290	57.792	1.00 21.39	C
						11.493	34.587	59.158	1.00 22.03	C
ATOM	7153	CD	LYS		424	10.557	35.305	60.148	1.00 25.08	C
MOTA	7156		LYS		424	10.012		61.295	1.00 25.53	C
MOTA	7159	ΝZ	LYS			9.429	33.142	60.779	1.00 26.17	N
ATOM	7163	C	LYS			10.198	35.707		1.00 20.62	C
ATOM	7164	0	LYS		424	9.785	36.856		1.00 20.46	0
ATOM	7165	N	LEU			10.606	35.069	54.533	1.00 19.60	N
MOTA	7167	CA	LEU		425	10.422	35.708	53.223	1.00 19.55	С
MOTA	7169	CB	LEU		425	11.035	34.913	52.090	1.00 19.54	С
ATOM	7172	CG	LEU	В	425	12.505	34.601	52.232	1.00 21.54	С
ATOM ·	7174	CD1				12.869	33. 566 .	51.211	1.00 23.40	С
ATOM	7178	CD2	\mathbf{LEU}	В	425	13.352	35.834	52.060	1.00 22.49	· C
ATOM	7182	С	LEU	В	425	8.938	35.944	52.908	1.00 19.31	С
ATOM	7183	0	LEU	В	425	8.581	36.844	52.167	1.00 19.19	0
ATOM	7184	N	VAL	В	426	8.067	35.120	53.458	1.00 19.66	N
ATOM	7186	CA	VAL			6.624	35.318	53.304	1.00 19.82	C
ATOM	7188	CB	VAL	В	426	5.810	34.102	53.825	1.00 19.55	Ċ
ATOM	7190	CG1	VAL			4.326	34.417	53.825	1.00 18.92	C
MOTA	7194		VAL			6.122	32.843	52.986	1.00 19.22	Ċ
ATOM	7198	С			426	6.207	36.568	54.050	1.00 20.19	· č
MOTA	7199	Ō			426	5.549	37.418	53.511	1.00 20.87	Ö
ATOM	7200	N			427	6.624	36.694	55.296	1.00 20.79	· N
MOTA	7202	CA			427	6.278	37.863	56.087	1.00 21.20	C
ATOM	7204	CB			427	6.894	37.764	57.497	1.00 21.36	· C
MOTA	7207	OG			427	6.259	36.781	58.288	1.00 21.30	
ATOM	7207	C	SER		427	6.790	39.129	55.428	1.00 22.31	0
ATOM	7210	Ö			427	6.201	40.177	55.582		C
ATOM	7210		LEU						1.00 20.49	0
ATOM	7211	N	LEU		428	7.924 8.587	39.027	54.738	1.00 21.51	N
ATOM	7215	CA CB	LEU				40.206	54.213	1.00 21.87	C
ATOM	7213				428	10.006	39.877 39.857	53.752	1.00 22.01	C
ATOM	7220	CG				11.072		54.846	1.00 22.00	C
			LEU		428	12.358	39.137	54.352	1.00 22.22	C
ATOM	7224		LEU			11.375	41.269	55.310	1.00 21.90	C
MOTA	7228	C	LEU			7.778	40.809	53.079	1.00 22.12	C
ATOM	7229	0			428	7.788	42.016	52.901	1.00 21.40	0
ATOM	7230	N			429	7.072	39.969	52.330	1.00 23.03	N
ATOM	7232	CA			429	6.227	40.446	51.244	1.00 24.02	C
ATOM	7234	CB			429	5.613	39.303	50.412	1.00 24.16	C
ATOM	7237	CG			429	6.557	38.518	49.526	1.00 24.59	С
ATOM	7240	CD			429	7.456	39.354	48.604	1.00 25.32	C
MOTA	7243	NE			429	8.494	38.543	47.975	1.00 24.69	N
MOTA	7245	CZ			429	8.371	37.961	46.791	1.00 26.36	C
MOTA	7246		ARG			7.272	38.102	46.064	1.00 26.96	N
ATOM	7249		ARG			9.355	37.221	46.331	1.00 27.37	N
ATOM	7252	C			429	5.106	41.270	51.814	1.00 24.59	C
ATOM	7253	0			429	4.804	42.352	51.315	1.00 26.17	0
ATOM	7254	N			430	4.444	40.774	52.838	1.00 24.58	N
MOTA	7256	CA			430	3.337	41.547	53.388	1.00 24.82	С
MOTA	7258	CB			430	2.507	40.728	54.397	1.00 25.23	C
MOTA	7260		THR			1.626	39.824	53.700	1.00 27.17	0
MOTA	7262	CG2			430	1.571	41.634	55.145	1.00 26.41	С
MOTA	7266	С	THR	В	430	3.842	42.825	54.027	1.00 24.07	С
MOTA	7267	0	THR	В	430	3.180	43.824	53.964	1.00 24.19	0

ATOM	7268	N	LEU	В	431	5.015	42.783	54.636	1.00 23.83	3.7
MOTA	7270	CA	LEU			5.598	43.946	55.276	1.00 23.82	N
ATOM	7272	СВ	LEU		431	6.853			1.00 23.82	С
ATOM	7275	CG	LEU				43.566	56.053	1.00 24.30	C
						6.814	43.380	57.565	1.00 25.96	С
ATOM	7277		LEU			5.442	43.604	58.172	1.00 27.20	C
MOTA	7281	CD2	LEU			7.349	42.013	57.897	1.00 28.21	Ċ
MOTA	7285	С	LEU	В	431	5.977	44.975	54.239	1.00 23.26	C
MOTA	7286	0	LEU	В	431	5.923	46.176	54.492	1.00 22.84	
MOTA	7287	N	SER			6.373	44.498	53.069	1.00 22.92	0
ATOM	7289	CA	SER			6.604				N
ATOM	7291	CB			432		45.391	51.952	1.00 22.82	C
						7.100	44.653	50.732	1.00 22.84	C
ATOM	7294	OG			432	7.207	45.556	49.655	1.00 23.55	0
MOTA	7296	C			432	5.341	46.132	51.589	1.00 22.67	С
ATOM	7297	0			432	5.423	47.296	51.315	1.00 22.90	ō
MOTA	7298	N	SER	В	433	4.181	45.476	51.580	1.00 22.72	N
ATOM	7300	CA	SER	В	433	2.907	46.183	51.309	1.00 23.00	
ATOM	7302	СВ			433	1.705	45.224	51.154	1.00 23.28	C
ATOM	7305	OG			433					С
ATOM	7307	C				1.809	44.429	49.973	1.00 27.58	0
					433	2.576	47.187	52.388	1.00 21.87	С
ATOM	7308	0			433	2.144	48.289	52.103	1.00 21.06	0
ATOM	7309	N			434	2.771	46.786	53.635	1.00 21.22	N
ATOM	7311	CA	VAL			2.437	47.642	54.749	1.00 20.81	Ċ
MOTA	7313	CB	VAL	В	434	2.627	46.887	56.091	1.00 20.75	C
MOTA	7315	CG1	VAL		434	2.403	47.788	57.295	1.00 20.51	C
ATOM	7319		VAL			1.656	45.736			C
ATOM	7323	C	VAL					56.178	1.00 21.14	С
ATOM	7324					3.277	48.928	54.648	1.00 20.36	C
		0	VAL			2.819	49.996	55.001	1.00 19.94	0
ATOM	7325	N	HIS			4.489	48.824	54.130	1.00 20.35	N
ATOM	7327	CA			435	5.350	49.981	53.997	1.00 20.72	C
ATOM	7329	CB	\mathtt{HIS}	В	435	6.791	49.571	53.668	1.00 20.92	č
ATOM	7332	CG	HIS	В	435	7.678	50.733	53.347	1.00 21.42	C
ATOM	7333	ND1	HIS			8.403	50.814	52.179	1.00 20.55	
ATOM	7335		HIS			9.084	51.948			N
ATOM	7337		HIS					52.173	1.00 21.02	C
ATOM	7339					8.795	52.624	53.273	1.00 20.03	N
			HIS			7.912	51.889	54.022	1.00 20.83	C
ATOM	7341	C	HIS		435	4.831	50.921	52.924	1.00 20.87	С
ATOM	7342	0			435	4.832	52.144	53.085	1.00 20.81	Ō
ATOM	7343	N	SER	В	436	4.385	50.357	51.824	1.00 21.23	N
ATOM	7345	CA	SER	В	436	3.737	51.169	50.803	1.00 21.81	
MOTA	7347	CB	SER	В	436	3.417	50.312	49.584	1.00 21.64	C
ATOM	7350	OG			436	4.630	49.798	49.024	1.00 21.73	C
ATOM	7352	C			436	2.493	51.904			0
ATOM	7353	Ö	SER					51.338	1.00 22.24	C
ATOM	7354	N				2.269	53.043	50.995	1.00 22.27	0
ATOM			GLU			1.709	51.240	52.181	1.00 23.51	N
	7356	CA	GLU			0.548	51.827	52.856	1.00 24.49	C
ATOM	7358	СВ	GLU	В	437	-0.209	50.754	53.671	1.00 24.99	С
MOTA	7361	CG	GLU			-1.228	49.931	52.862	1.00 28.62	Ċ
MOTA	7364	CD	GLU	В	437	-1.545	48.518	53.432	1.00 33.03	č
MOTA	7365	OE1	GLU	В	437	-1.696	47.556	52.624	1.00 35.00	
ATOM	7366		GLU			-1.657	48.345	54.671		0
ATOM	7367	C	GLU			1.006			1.00 33.87	0
MOTA	7368	ŏ					52.968	53.771	1.00 24.70	С
ATOM			GLU			0.335	54.007	53.864	1.00 24.42	0
	7369	N	GLN			2.155	52.772	54.424	1.00 24.99	N
MOTA	7371	CA	GLN			2.742	53.772	55.314	1.00 25.30	С
ATOM	7373	CB	GLN			3.912	53.186	56.108	1.00 24.95	Č
MOTA	7376	CG	GLN	В	438	4.750	54.232	56.863	1.00 24.18	Č
ATOM	7379	CD	GLN			4.012	54.826	58.049	1.00 23.98	C
ATOM	7380		GLN			4.097	54.283	59.143		C
ATOM	7381					3.295			1.00 24.29	0
MOTA	7384	C	GLN				55.930	57.843	1.00 22.11	N
ATOM	7385					3.207	55.039	54.582	1.00 26.53	C
AION	1303	0	GLN	B	438	2.925	56.139	55.064	1.00 25.78	0
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ATOM	7386	N	VAL	Þ	130	3.943	E4 000	E2 46E	1 00					•
ATOM	7388	CA					54.882	53.465		28.03				N
ATOM			VAL		439	. 4.355	56.019	52.617		29.51				С
	7390	CB	VAL			5.366	55.646	51.446		29.86				С
ATOM	7392	CG1			439	6.675	55.089	51.971	1.00	30.85				, C
ATOM	7396	CG2	VAL		439	4.785	54.643	50.495	1.00	31.33			•	C
MOTA .	7400	С	VAL	В	439	3.133	56.710	52.015		30.36		•	•	č
ATOM	7401	0	VAL			3.102	57.944	51.858		30.23				
ATOM	7402	N	PHE			2.113	55.925							0
ATOM	7404	CA	PHE					51.691		31.79				N
ATOM	7404					0.884	56.523	51.209		33.28	•			С
		CB	PHE			-0.177	55.481	50.799		33.50				С
ATOM	7409	CG	PHE			-1.397	56.109	50.175	1.00	35.31				С
ATOM	7410		PHE			-1.357	56.572	48.848	1.00	37.12	•			. C
MOTA	7412	CE1	PHE			-2.458	57.188	48.277		36.48				Č
ATOM	7414	CZ	PHE	В	440	-3.613	57.377	49.041		36.71				Č
ATOM	7416	CE2	PHE			-3.660	56.946	50.364		36.17				. C
ATOM	7418		PHE			-2.551	56.322	50.927						
ATOM	7420	C	PHE			0.379				36.31				С
ATOM	7421	ŏ					57.442	52.319		33.80				С
			PHE			0.318	58.651	52.152		33.44	•			0
ATOM	7422	N	ALA			0.093	56.843	53.471	1.00	35.03				N
MOTA	7424	CA	ALA			-0.382	57.555	54.654°	1.00	35.88				Ċ
ATOM	7426	CB	ALA	В	441	-0.533	56.566	55.813	1.00	35.75				C
MOTA	7430	С	ALA	В	441	0.485	58.754	55.097		36.81				Č
ATOM	7431	0	ALA	В	441	-0.035	59.685	55.725		37.00				ŏ
MOTA	7432	N	LEU			1.782	58.735	54.782		37.81				
ATOM	7434	CA	LEU			2.689	59.798	55.206						N
ATOM	7436	CB	LEU			4.139	59.354	55.124		38.67				C
ATOM	7439	CG								38.52				С
ATOM			LEU		442	4.636	58.724	56.433		38.11				С
	7441		LEU			5.920	57.978	56.176		37.89				С
ATOM	7445		LEU			4.839	59.754	57.535	1.00	37.08				С
ATOM	7449	С	LEU			2.517	61.082	54.411	1.00	40.14				С
ATOM	7450	0	LEU			2.765	62.165	54.934	1.00	40.85				O
ATOM	.7451	N	ARG	В	443.	2.090	60.982	53.159		41.45				N
ATOM	7453	CA	ARG			1.875	62.178	52.332	1 00	42.28				C
ATOM	7455	CB	ARG			1.702	61.772	50.869		42.73				2
ATOM	7458	CG	ARG			2.904	61.040							C
ATOM	7461	CD	ARG		443			50.284		43.42				С
ATOM	7464					2.729	60.693	48.821		45.87				С
		NE	ARG			2.899	61.842	47.916		47.49				N
ATOM	7466	CZ	ARG		443	2.812	61.776	46.580	1.00	48.94				С
ATOM	7467		ARG		443	2.554	60.622	45.960	1.00	49.43				N
MOTA	7470	NH2	ARG		443	2.988	62.868	45.846	1.00	49.74				N
MOTA	7473	С	ARG	В	443	0.693	63.052	52.783		42.62				C
MÒTA	7474	0	ARG	В	443	0.659	64.248	52.492		42.56				ŏ
ATOM	7475	N	LEU		444	-0.261	62.456	53.499		43.25				N
ATOM	7477	CA	LEU		444	-1.393	63.203	54.072		43.67				
ATOM	7479	CB	LEU			-2.505	62.274	54.606		44.00				C
ATOM	7482	CG	LEU			-2.912	60.948	53.946						C
ATOM	7484		LEU	D	111					44.89				С
ATOM	7488	CDJ	TEU	ם	444	-3.840	60.183	54.916		44.64				С
			LEU			-3.571	61.163	52.571		45.14				С
ATOM	7492	C	LEU			-0.964	64.072	55.244	1.00	43.57				С
ATOM	7493	0	LEU			-1.767	64.833	55.767	1.00	43.90				0
ATOM	7494	N	GLN	В	445	0.279	63.930	55.687		43.43				N
ATOM	7496	CA	GLN	В	445	0.759	64.627	56.879		43.35				Ċ
ATOM	7498	CB	GLN	В	445	1.100	63.624	58.015		43.42				Ċ.
ATOM	7501	CG	GLN			0.707	62.147	57.735		44.19				
ATOM	7504	CD	GLN			0.126	61.412	58.927						C
ATOM	7505		GLN			0.823		50.52/		44.36				C
ATOM	7506						60.623	59.559		45.11		-		0
			-			-1.155	61.646	59.220		43.92				N
ATOM	7509	C	GLN			1.958	65.515	56.508		43.00				С
ATOM	7510	0	GLN			2.807	65.809	57.352	1.00	43.42				0
ATOM	7511	N	ASP	В	446	2.004	65.954	55.245		42.48				N
ATOM	7513	CA	ASP	В	446	3.054	66.859	54.724		41.88				· C
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MOTA	7515	CB	ASP	В	446	3.150	68.157	55.583	1.00 42.24	C
MOTA	7518	CG	ASP	В	446	2.425	69.372	54.954	1.00 43.60	С
ATOM	7519	OD1	ASP	В	446	2.283	69.440	53.705	1.00 44.77	0
ATOM	7520	OD2	ASP	В	446	1.986	70.328	55.654	1.00 45.73	0
ATOM	7521	С	ASP	В	446	4.435	66.163	54.600	1.00 40.47	Ċ
ATOM	7522	o.	ASP		446	5.475	66.823	54.481	1.00 40.55	ŏ
ATOM	7523	N	LYS			4.443	64.834	54.599	1.00 38.43	N
ATOM	7525	CA	LYS		447	5.693	64.099	54.620	1.00 30.43	C
							63.228		1.00 37.03	C
ATOM	7527	CB	LYS		447	5.768		55.883		
MOTA	7530	CG	LYS			5.925	64.038	57.192	1.00 36.58	Ç
MOTA	7533	CD	LYS		447	6.149	63.134	58.382	1.00 36.12	C
MOTA	7536	CE	LYS		447	6.249	63.897	59.653	1.00 35.81	C
MOTA	7539	NZ	LYS			4.944	64.489		1.00 36.74	N
MOTA	7543	С	LYS			5.885	63.284	53.334	1.00 36.02	С
ATOM	7544	0	LYS		447	5.567	62.091	53.266	1.00 36.06	0
ATOM	7545	N	LYS	В	448	6.408	63.958	52.311	1.00 34.70	N
ATOM	7547	CA	LYS	В	448	6.759	63.325	51.039	1.00 33.31	· C
ATOM	7549	CB	LYS	В	448	6.669	64.320	49.883	1.00 33.27	С
ATOM	7552	CG	LYS	В	448	5.275	64.890	49.699	1.00 34.19	С
ATOM	7555	CD	LYS			5.283	66.251	49.021	1.00 34.98	С
ATOM	7558	CE	LYS			4.235	67.183	49.621	1.00 35.27	C
ATOM	7561	NZ	LYS			3.627	68.028	48.576	1.00 34.97	Ŋ
ATOM	7565	C	LYS			8.169	62.832	51.140	1.00 31.74	Ċ
ATOM	7566	ŏ	LYS			9.022	63.518	51.685	1.00 31.55	ŏ
ATOM	7567	N	LEU			8.412	61.642	50.608	1.00 30.04	N
	7569		LEU			9.750	61.071	50.579	1.00 30.04	C
ATOM		CA				9.701	59.675	49.961	1.00 28.75	C
ATOM	7571	CB	LEU							C
ATOM	7574	CG	LEU			8.773	58.628	50.582	1.00 28.08	. C
MOTA	7576	CD1	LEU			8.490	57.527	49.579	1.00 27.98	C
MOTA	7580		LEU			9.369	58.038	51.852	1.00 27.62	C
ATOM	7584	C			449	10.660	61.982	49.748	1.00 27.73	C
MOTA	7585	0			449	10.156	62.590	48.820	1.00 27.76	0
ATOM	7586	N			450	11.962	62.097	50.070	1.00 26.77	N
ATOM	7587	CA			450	12.933	62.812	49.220	1.00 26.60	С
ATOM	7589	CB			450	14.229	62.728	50.031	1.00 26.41	С
ATOM	7592	CG			450	14.065	61.540	50.847	1.00 26.30	С
MOTA	7595	CD	PRO	В	450	12.631	61.559	51.264	1.00 26.56	С
ATOM	7598	С	PRO	В	450	13.138	62.151	47.850	1.00 26.48	С
ATOM	7599	0	PRO	В	450	12.644	61.047	47.694	1.00 26.36	0
MOTA	7600	N	PRO	В	451	13.803	62.804	46.894	1.00 26.69	N
ATOM	7601	CA	PRO	В	451	13.980	62.256	45.533	1.00 26.91	С
MOTA	7603	CB	PRO	В	451	14.962		44.886	1.00 26.97	С
MOTA	7606	CG			451	14.749	64.553	45.638	1.00 26.63	С
MOTA	7609	CD	PRO	В	451	14.371	64.163	47.023	1.00 26.77	C
ATOM	7612	С			451	14.486		45.404	1.00 27.34	Č
ATOM	7613	Õ			451	13.804	60.024	44.722	1.00 27.32	Ö
ATOM	7614	Ŋ			452	15.598		46.021	1.00 27.60	N
ATOM	7616	CA			452	16.093		45.808	1.00 28.03	Ċ
ATOM	7618	CB			452	17.507		46.389	1.00 28.73	č
ATOM	7621	CG			452	18.165	57.425	46.196	1.00 31.15	Č
ATOM	7623		LEU			18.178	56.894	44.714	1.00 31.13	c
ATOM	7627		LEU			19.606				C
					452			46.767	1.00 32.38	C
MOTA	7631	C				15.121	57.952	46.325	1.00 27.55	C
MOTA	7632	0			452	15.012		45.734	1.00 28.06	0
ATOM	7633	N			453	14.399		47.401	1.00 27.00	Й
ATOM	7635	CA			453	13.393		47.923	1.00 26.27	C
ATOM	7637	CB			453	13.138		49.407	1.00 25.68	C
ATOM	7640	CG			453	14.400		50.278	1.00 24.28	C
ATOM	7642		LEU			14.057		51.757	1.00 23.69	C
ATOM	7646		LEU			15.198		50.093	1.00 22.47	C
ATOM	7650		LEU	В	453	12.072	57.356	47.153	1.00 26.62	C

ATOM	7651	0	LEU	В	453		11.378	56.374	47.071	1.00	26.26	, c
ATOM	7652	N	SER	В	454		11.719	58.510	46.593		27.23	, C
ATOM	7654	CA	SER	В	454		10.516	58.629	45.771		27.56	Ç
MOTA	7656	CB	SER	В	454		10.341	60.051	45.256		27.17	Č
ATOM	7659	OG	SER	В	454		9.176	60.137	44.461		26.82	č
MOTA	7661	С	SER	В	454		10.546	57.685	44.570		28.60	Č
MOTA	7662	0	SER	В	454		9.548	57.055	44.247		28.67	ò
MOTA	7663	N	GLU	В	455		11.684	57.578	43.900		29.39	N
ATOM	7665	CA	GLU	В	455		11.711	56.799	42.693		30.28	Ċ
MOTA	7667	CB	GLU	В	455		12.880	57.192	41.804		30.98	Č
ATOM	7670	CG	GLU	В	455		14.270	56.907	42.332		34.53	Ċ
MOTA	7673	CD			455		15.352	57.392	41.361		39.06	C
MOTA	7674	OE1			455		15.249	57.056	40.142	1.00	41.53	C
MOTA	7675		GLU				16.300	58.099	41.809	1.00	40.65	C
MOTA	7676	С			455		11.659	55.306	42.947	1.00	30.47	
MOTA	7677	Ο·			455		11.347	54.555	42.035	1.00	30.99	C
MOTA	7678	N			45,6		11.917	54.868	44.176		30.71	N
MOTA	7680	CA			456		11.794	53.440	44.533		30.70	C
MOTA	7682	СВ			456		12.909		. 45.536	1.00	30.90	C
ATOM	7684	CG1			456		14.241	53.638	45.165	1.00	32.23	C
ATOM	7687	CD1			456		15.194	53.630	46.299		33.86	C
ATOM	7691		ILE				13.105	51.465	45.551		30.72	C
ATOM	7695	Ċ			456		10.423	53.077	45.118		30.23	C
ATOM ATOM	7696	0			456		9.972	51.948	44.964		30.77	C
ATOM	7697	N			457		9.754	54.015	45.781		29.72	N
ATOM	7699 7701	CA			457		8.610	53.668	46.626		29.22	C
ATOM	7701	CB			457 457		8.993	53.752	48.104		29.06	Ç
ATOM	7705	CG CD1					10.023		48.544		26.61	
ATOM	7707	NE1	TRP		457 457		10.233	51.534	48.082		26.22	
ATOM	7709	CE2					11.267	50.950	48.771		25.62	N
ATOM	7710		TRP				11.742 10.969	51.844	49.689		23.49	C
ATOM	7711	CE3					11.244	53.014 54.082	49.575		23.71	C
ATOM	7713		TRP				12.278	53.953	50.426 51.353		23.40	C
ATOM	7715		TRP		457		13.016	52.780	51.435		22.52 23.80	C
ATOM	7717	CZ2					12.765	51.711	50.606		23.80	C
MOTA	7719	C	TRP				7.360	54.498	46.430		29.43	C
ATOM	7720	ō			457		6.335	54.165	46.996		30.24	C
ATOM	7721	N	ASP				7.414	55.582	45.680		29.55	N
ATOM	7723	CA	ASP		458		6.172	56.245	45.270		29.58	C
ATOM	7725	CB	ASP		458		6.383	57.748	44.993		29.62	Č
ATOM	7728	CG	ASP	В	458	•	6.558	58.597	46.270		29.19	Ċ
ATOM	7729	OD1	ASP	В	458		5.853	58.388	47.276		27.26	Ö
ATOM	7730	OD2	ASP		458		7.375	59.536	46.325		29.12	Ö
MOTA	7731	С	ASP	В	458		5.643	55.547	44.020		29.27	Ö
MOTA	7732	0	ASP				4.540	55.010	44.023		29.42	Ö
MOTA	7733		444				15.894	52.486	56.865		48.14	Ö
ATOM	7734		444				15.474	51.542	57.867	1.00	46.56	S
ATOM	7735		444				16.396	50.427	58.018	1.00	48.32	0
ATOM	7736	C01	444	В	500 .		15.582	52.491	59.353		48.77	·
ATOM	7737		444				15.889	51.818	60.575	1.00	50.65	C
ATOM	7739	C03	444	В	500		15.958	52.565	61.760		51.57	C
MOTA	7741	C04	444	В	500		15.718	53.958	61.711		52.37	C
MOTA	7743	005	444	R	500		15.406	54.615	60.487		51.11	· C
ATOM	7745	CU6	444	B	500		15.333	53.878	59.291		49.40	C
MOTA	7747		444				13.727	51.138	57.775		36.30	N
MOTA	7748	CTP	444	B	500		13.081	50.396	58.957		33.50	C
ATOM ATOM	7751 7752	CTA	444	r R	500		12.351	49.166	58.482		31.89	C
ATOM	7753	F22	444	D D	500		12.007	48.424	59.531		31.80	F
ATOM	7754	E-51	444 444	Þ	200 500		13.079	48.342	57.710		31.53	F
111 OL1	,,,,,,	£ 2.0	7 7 4	Þ	500		11.241	49.447	57.804	1.00	32.02	F
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ATOM	7755	C23				12.784	52.170	57.243	1.00 29.65	С
ATOM	7756	C24	444	В	500	12.771	52.362	55.844	1.00 27.35	C
ATOM	7758	C25	444	В	500	11.945	53.318	55.224	1.00 24.31	С
ATOM	7760		444			11.911	52.985	58.037	1.00 25.39	· c
										Č
MOTA	7762		444			11.090	53.944	57.426	1.00 23.40	С
ATOM	7764	C26	444	В	500	11.076	54.137	56.001	1.00 22.41	С
MOTA	7765	C33	444	В	500	10.204	55.176	55.214	1.00 21.07	. C
ATOM	7766		444			8.816	55.450	55.874	1.00 21.30	Ċ
										Ç
MOTA	7767		444			8.015	56.167	55.037	1.00 20.33	F F
ATOM	7768	F37	444.	В	500	8.113	54.341	56.184	1.00 21.82	F
ATOM	7769	F35	444	В	500	8.986	56.096	57.053	1.00 21.46	F
ATOM	7770		444			9.950	54.781	53.835	1.00 19.04	. 0
		C38	444			10.934	56.551	55.213	1.00 19.74	· C
ATOM	7772									
ATOM	7773		444			11.397	56.954	56.422	1.00 18.29	F
MOTA	7774	F40	444	В	500	12.019	56.555	54.437	1.00 18.70	F
ATOM	7775	F41	444	В	500	10.199	57.555	54.733	1.00 20.76	F
ATOM	7776	N	LEU			68.407	95.876	84.954	1.00 20.46	N
							94.552	85.306	1.00 20.58	Č
ATOM	7778	CA	LEU			67.795				٥
ATOM	7780	CB	LEU			67.642	93.651	84.059	1.00 20.70	. С
MOTA	7783	CG	LEU	С	220	66.308	92.899	83.802	1.00 21.24	С
ATOM	7785	CD1	LEU		220	66.541	91.475	83.287	1.00 21.11	С
						65.368	92.881	85.008	1.00 21.74	C
MOTA	7789	CD2	LEU							2
ATOM	7793	С	LEU			68.596	93.807	86.390	1.00 20.21	С
ATOM	7794	0	LEU	С	220	69.637	93.195	86.108	1.00 20.49	0
ATOM	7797	N	THR	С	221	68.083	93.847	87.621	1.00 19.34	N
ATOM	7799	CA	THR			68.701	93.172	88.756	1.00 18.30	С
					221		93.684	90.106	1.00 18.36	č
MOTA	7801	СВ				68.088				C
ATOM	7803	OG1	THR			66.687	93.393	90.171	1.00 17.31	0
ATOM	7805	CG2	THR	С	221	68.162	95.212	90.228	1.00 17.98	С
MOTA	7809	С	THR	С	221	68.554	91.650	88.643	1.00 17.61	С
ATOM	7810	ŏ			221	67.801	91.155	87.820	1.00 17.01	Ō
MOTA	7811	N	ALA		222	69.283	90.924	89.484	1.00 17.25	N
ATOM	·7813	CA	ALA	С	222	69.198	89.469	89.543	1.00 16.96	С
ATOM	7815	CB	ALA	С	222	70.278	88.938	90.408	1.00 16.75	С
ATOM	7819	C			222	67.836	89.005	90.069	1.00 16.95	С
					222	67.353	87.956	89.647	1.00 16.95	Ö
ATOM	7820	0								
ATOM	7821	N			223	67.249	89.795	90.985	1.00 16.64	N
MOTA	7823	CA	ALA	С	223	65.931	89.534	91.604	1.00 15.98	С
MOTA	7825	CB	ALA	С	223	65.719	90.403	92.862	1.00 15.97	C
ATOM	7829	С			223	64.775	89.752	90.689	1.00 15.40	С
	7830	ŏ			223	63.752	89.128	90.860	1.00 15.83	Ō
MOTA										
MOTA	7831	N			224	64.902	90.685	89.762	1.00 15.28	N
MOTA	7833	CA			224	63.905	90.856	88.704	1.00 15.26	С
ATOM	7835	CB	GLN	C	224	64.125	92.170	87.974	1.00 15.26	С
MOTA	7838	CG			224	63.680	93.387	88.762	1.00 16.25	С
ATOM	7841	CD			224	63.977	94.673	88.018	1.00 18.24	Č
MOTA	7842	OE1	GLN			65.101	94.846	87.514	1.00 19.96	0
ATOM	7843	NE2	GLN	С	224	62.972	95.569	87.910	1.00 16.95	N
MOTA	7846	С	GLN	С	224	64.006	89.698	87.722	1.00 15.13	Ċ
ATOM	7847	Ō			224	62.996	89.093	87.358	1.00 14.53	0
ATOM	7848	N			225	65.238	89.374	87.332	1.00 15.32	N
ATOM	7850	CA			225	65.519	88.156	86.572	1.00 15.82	С
MOTA	7852	CB			225	67.020	88.011	86.331	1.00 16.20	С
ATOM	7855	CG	GLU	С	225	67.485	88.956	85.233	1.00 18.35	С
ATOM	7858	CD			225	68.906	88.731	84.764	1.00 20.57	Č
									1.00 20.37	
ATOM	7859		GLU			69.832	88.588	85.616		0
MOTA	7860		GLU			69.079	88.724	83.521	1.00 22.87	0
MOTA	7861	С	GLU	С	225	64.962	86.894	87.235	1.00 15.54	C
ATOM	7862	0			225	64.339	86.086	86.569	1.00 15.47	0
ATOM	7863	Ŋ			226	65.135	86.751	88.546	1.00 15.44	N
ATOM	7865	CA	TEO.	Ų	226	64.630	85.576	89.247	1.00 15.46	С

ATOM	7867	СВ	LEU (226	65.038	85.553	90.720	1 00 15 40	
ATOM	7870	CG .			64.717	84.249	91.476	1.00 15.43	
ATOM	7872		LEU (65.124	83.034	90.639	1.00 15.47	
ATOM	7876		LEU (65.384	84.197		1.00 16.08	
ATOM	7880	C	LEU				92.860	1.00 14.23	
ATOM	7881	õ	LEU (63.127	85.489	89.191	1.00 15.85	
ATOM	7882	N			62.596	84.406	88.999	1.00 15.93	
ATOM	7884		MET (62.429	86.607	89.369	1.00 15.98	
ATOM		CA	MET (60.986	86.516	89.433	1.00 16.23	
	7886	CB	MET (60.334	87.695	90.154	1.00 16.93	
MOTA	7889	CG		227	60.180	88.921	89.351	1.00 19.81	
ATOM	7892	SD	MET (58.651	89.062	88.383	1.00 21.98	
ATOM	7893	CE	MET (58.925	90.815	88.003	1.00 19.64	
ATOM	7897	C	MET (60.429	86.360	88.068	1.00 15.44	
ATOM	7898	0	MET (59.376	85.790	87.945	1.00 15.35	
MOTA	7899	N		228	61.125	86.861	87.050	1.00 14.99	
ATOM	7901	CA		228	60.671	86.702	85.669	1.00 14.74	
ATOM	7903	СВ	ILE (61.512	87.586	84.698	1.00 15.10	
ATOM	7905	CG1			61.087	89.057	84.830	1.00 16.01	
ATOM	7908	CD1	ILE (62.068		84.206	1.00 15.97	
ATOM	7912	CG2			61.363	87.116	83.225	1.00 14.57	
ATOM .	7916	С	ILE (60.754	85.239	85.275	1.00 14.01	
MOTA	7917	0	ILE (59.870	84.691	84.626	1.00 12.80	
MOTA	7918	N	GLN (229	61.834	84.619	85,720	1.00 14.08	
MOTA	7920	CA	GLN (229	62.113	83.209	85.457	1.00 14.15	
ATOM	7922	CB	GLN (63.500	82.856	85.991	1.00 14.35	
ATOM	7925	CG	GLN (229	64.174	81.669	85.348	1.00 15.62	
ATOM	7928	CD	GLN C		65.316	81.142	86.203	1.00 16.13	
ATOM	7929	OE1	GLN (65.423	79.947	86.395	1.00 16.72	
ATOM	7930	NE2	GLN (66.150	82.038	86.730	1.00 15.74	
ATOM	7933	С	GLN C	229	61.057	82.331	86.094	1.00 13.31	
ATOM	7934	0	GLN C	229	60.509	81.470	85.425	1.00 12.93	
ATOM	7935	N	GLN C	230	60.768	82.592	87.370	1.00 12.70	
MOTA	7937	CA	GLN C	230	59.681	81.946	88.090	1.00 12.92	
ATOM	7939	CB	GLN C	230	59.694	82.346	89.572	1.00 12.73	
MOTA	7942	CG	GLN C	230	60.986	81.999	90.285	1.00 12.75	
ATOM.	7945	CD	GLN C	230	60.801	81.507	91.697	1.00 13.18	
MOTA	7946	OE1	GLN C	230	60.394	80.380	91.915	1.00 14.26	
ATOM	7947	NE2	GLN C	230	61.136	82.336	92.659	1.00 14.08	
ATOM	7950	С	GLN C	230	58.290	82.199	87.455	1.00 13.57	
MOTA	7951	0	GLN C		57.493	81.298	87.404	1.00 13.61	
MOTA	7952	N	LEU C	231	57.999	83.401	86.960	1.00 14.58	
ATOM	7954	CA	LEU C		56.758	83.645	86.217	1.00 15.16	
ATOM	7956	CB .	LEU C	231	56.575	85.121	85.855	1.00 15.10	
ATOM	7959	CG	LEU C		56.062	86.070	86.952	1.00 16.43	
ATOM	7961	CD1	LEU C	231	55.947	87.467	86.338	1.00 16.51	
ATOM	7965	CD2	LEU C	231	54.732	85.634	87.621	1.00 16.52	
MOTA	7969	C	LEU C	231	56.678	82.823	84.948	1.00 15.35	
MOTA	7970	0	LEU C	231	55.615	82.333	84.610	1.00 15.14	
ATOM	7971	N	VAL C		57.795	82.666	84.251	1.00 15.14	
ATOM	7973	CA	VAL C	232	57.812	81.880	83.020	1.00 16.58	
MOTA	7975	CB	VAL C	232	59.152	82.087	82.231	1.00 16.38	
ATOM	7977	CG1	VAL C	232	59.405	80.995	81.196	1.00 10.03	
MOTA	7981	CG2	VAL C	232	59.161	83.455	81.558	1.00 17.02	
ATOM	7985	С	VAL C	232	57.562	80.415	83.366	1.00 17.10	
ATOM	7986	0	VAL C	232	56.726	79.770	82.762	1.00 17.03	
ATOM	7987	N	ALA C	233	58.268	79.899	84.367	1.00 17.47	
ATOM	7989 '		ALA C		58.123	78.508	84.777	1.00 17.55	
MOTA	7991		ALA C		59.068	78.211	85.893	1.00 17.33	
ATOM	7995		ALA C		56.686	78.203	85.202	1.00 17.17	
MOTA	7996		ALA C		56.148	77.165	84.849	1.00 18.36	•
ATOM	7997	N	ALA C	234	56.081	79.114	85.964	1.00 18.30	
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ATOM	7999	CA	ALA	С	234	54.691	79.022	86.381	1.00	19.97	С
ATOM	8001	СВ	ALA		234	54.277	80.311	87.092		20.01	G
ATOM	8005	С	ALA	С	234	53.778	78.803	85.183		21.16	· č
ATOM	8006	0			234	52.928	77.918	85.203		21.00	ŏ
ATOM	8007	N	GLN	С	235	53.958	79.640	84.160		22.27	N
MOTA	8009	CA			235	53.189	79.596	82.920		23.49	, C
ATOM	8011	CB			235	53.658	80.751	82.032		23.80	Č
MOTA	8014	CG	GLN		235	52.924	80.935	80.730		26.40	č
ATOM	8017	CD			235	52.370	82.363	80.544		29.80	Č
· ATOM	8018	OE1			235	53.130	83.337	80.427		30.99	Ö
ATOM	8019		GLN			51.047	82.472	80.487		30.89	N
ATOM	8022	С			235	53.307	78.225	82.200		24.09	Ċ
ATOM	8023	0			235	52.339	77.729	81.585		23.49	. 0
ATOM	8024	N			236	54.482	77.611	82.306		25.22	N
ATOM	8026	CA			236	54.736	76.290	81.724		26.63	C
MOTA	8028	CB			236	56.226	75.973	81.743		26.79	C
MOTA	8031	CG	LEU	С	236	56.787	75.400	80.451		28.16	Č
ATOM	8033	CD1	LEU			56.763	76.459	79.351		29.45	Ċ
ATOM	8037	CD2	LEU	С	236	58.202	74.896	80.685		29.39	· c
ATOM	8041	.C			236	54.006	75.184	82.456		27.59	·
ATOM	8042	0			236	53.410	74.312	81.836		27.49	Ö
ATOM	8043	N			237	54.060	75.242	83.785		29.25	N
ATOM	8045	CA	GLN	С	237	53.414	74.268	84.682		30.40	Ċ
ATOM	8047	CB			237	53.867	74.499	86.135		30.10	Ċ
ATOM	8050	CG			237	55.380	74.341	86.351		30.39	Ċ
ATOM	8053	CD	GLN	С	237	55.922	75.063	87.603	1.00	30.44	Ċ
MOTA	8054	OE1	GLN	С	237	55.217	75.893	88.242		31.79	Ö
MOTA	8055	NE2	GLN			57.179	74.752	87.950		26.66	N
MOTA	8058	С	GLN	С	237	51.879	74.315	84.603	1.00	31.76	C
ATOM	8059	0	GLN	С	237	51.201	73.303	84.769		31.65	0
MOTA	8060	N	CYS	С	238	51.337	75.494	84.350	1.00	33.85	N
ATOM'	8062	CA			238	49.903	75.652	84.231	1.00	36.00	С
ATOM	8064	CB			238	49.534	77.116	84.461	1.00	36.02	С
MOTA	8067	SG			238	49.621	77.474	86.236	1.00	37.59	S
MOTA	8068	С			238	49.386	75.105	82.891	1.00	37.79	C
ATOM	8069	0			238	48.207	74.813	82.764	1.00	37.55	0
ATOM	8070	N			239	50.285	74.946	81.921	1.00	40.34	N
MOTA	8072	CA			239	50.019	74.205	80.698		42.63	С
ATOM	8074	CB			239	51.118	74.510	79.681	1.00	42.83	C
ATOM	8077	CG			239	50.786	74.006	78.315		44.12	C
ATOM	8078		ASN			49.798	74.422	77.728		46.84	0
ATOM	8079		ASN			51.598	73.085	77.798	1.00	46.09	N
ATOM	8082	C			239	49.939	72.691	80.963		44.86	C
MOTA	8083	0			239	50.957	71.989	80.997		45.24	0
MOTA	8084	N			240	48.732	72.182	81.187		47.39	N
MOTA	8086	CA			240	48.550	70.748	81.424		49.15	C
ATOM	8088	CB			240	47.781	70.503	82.729		49.57	С
MOTA	8091	CG			240	48.507	70.929	84.012		50.75	С
MOTA	8094	CD			240	47.948	70.193	85.265		52.28	C
MOTA MOTA	8097 8100	CE			240	47.419	71.177	86.342		53.52	C
ATOM		NZ			240	47.743	70.775	87.756		53.89	Ŋ
ATOM	8104 8105	C			240 240	47.804	70.106	80.254		50.30	C
ATOM	8106	O N			240	47.424	68.938	80.323		50.42	0
ATOM	8108	CA			241	47.601	70.873 70.388	79.184		51.69	N
ATOM	8110	CB			241	46.918		77.987		52.70	C
ATOM	8113	CG			241	46.974	71.449	76.886		52.54	C
MOTA	8116	CD			241	46:146 46.528	72.674	77.168		51.29	C
ATOM	8119	NE			241	45.874	73.889	76.361		49.48	C
ATOM	8121	CZ			241	45.827	75.080 76.268	76.905		48.48	N
ATOM	8122		ARG			46.379	76.268	76.306 75.115		47.84	C
						 -0.019		12.113	1.00	47.82	N

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MOTA	8125	NH2	ARG	C 241	45.207	77.269	76.909	1.00 48.35		
ATOM	8128	С		C 241	47.557	69.102	77.465	1.00 48.33		N
ATOM	8129	0	ARG	C 241	46.900	68.060	77.338	1.00 54.27		C
MOTA	8130	N	SER	C 242	48.850	69.180	77.173	1.00 55.92		. 0
MOTA	8132	CA		C 242	49.563	68.050	76.591	1.00 57.26		N
ATOM.	8134	CB	SER	C 242	51.019	68.420	76.283	1.00 57.20		. C
MOTA	8137	OG		C 242	51.473	69.444	77.157	1.00 57.29		C
MOTA	8139	С		C 242	49.477	66.799	77.479	1.00 58.42		0
MOTA	8140	0	SER	C 242	49.664	65.676	76.975	1.00 59.11		C
ATOM	8141	N		C 243	49.206	66.980	78.781	1.00 59.46		0
ATOM	8143	CA		C 243	48.865	65.854	79.686	1.00 59.46		N
ATOM	8145	CB		C 243	50.077	65.405	80.541	1.00 60.66		C
ATOM	8148	CG		C 243	50.153	66.059	81.920	1.00 62.56		C
ATOM	8149	CD1		C 243	50.147	65.278	83.098	1.00 64.33		C
MOTA	8151	CE1	PHE	C 243	50.223	65.895	84.379	1.00 64.98		C
ATOM	8153	CZ	PHE	C 243	50.311	67.300	84.473	1.00 64.86		C C
ATOM	8155	CE2	PHE	C 243	50.329	68.078	83.298	1.00 64.42		
ATOM	8157	CD2	PHE	C 243	50.251	67.455	82.038	1.00 63.80	-	C C
ATOM	8159	C	PHE	C 243	47.669	66.186	80.583	1.00 60.21	•	C
ATOM	8160	O	PHE (C 243	46.533	65.826	80.274	1.00 60.43		. 0
ATOM	8161	N	LYS (C 248	39.626	65.075	76.301	1.00 41.86		. N
ATOM ·	8163	CA	LYS (C 248	38.541	65.296	77.242	1.00 42.05		C
ATOM	8165	CB	LYS (C 248	38.891	66.465	78.181	1.00 42.47		c
ATOM	8168	CG		C 248	40.049	66.219	79.139	1.00 44.16		C
ATOM	8171	CD		C 248	39.649	65.197	80.180	1.00 46.13		Ċ
MOTA	8174	CE		C 248	40.526	65.235	81.417	1.00 46.95		C
ATOM	8177	NZ		C 248	40.322	63.973	82.231	1.00 47.61		N
ATOM	8181	С		C 248	37.239	65.645	76.521	1.00 41.37		C
ATOM	8182	0		C 248	36.147	65.300	76.996	1.00 41.73		Ö
ATOM	8183	N		249	37.379	66.289	75.357	1.00 40.21	•	N
ATOM	8185	CA		C 249	36.464	67.352	74.905	1.00 39.12		C
ATOM	8187	CB	VAL (249.	37.311	68.530	74.334	1.00 39.26		C
ATOM	8189	CG1	VAL (249	36.471	69.495	73.527	1.00 39.31		C
ATOM	8193		VAL (38.051	69.262	75.467	1.00 39.63		C,
ATOM	8197	C		249	35.472	66.941	73.834	1.00 37.78		č
ATOM	8198	0		249	35.825	66.168	72.963	1.00 37.84		Ö
ATOM	8199	N		250	34.256	67.496	73.880	1.00 36.34		N .
ATOM	8201	CA		250	33.251	67.297	72.826	1.00 35.50		Ċ
ATOM	8203	CB	THR C		32.101	68.355	.72.890	1.00 35.49		Ċ
ATOM	8205		THR C		31.341	68.188	74.086	1.00 35.88		Ō
ATOM ATOM	8207		THR C		31.040	68.134	71.808	1.00 34.99		C
ATOM	8211 8212	C	THR C		33.918	67.351	71.458	1.00 34.68		С
ATOM	8212	0	THR C		34.625	68.304	71.143	1.00 34.47		0
ATOM	8214	N CA	PRO C		33.698	66.327	70.643	1.00 33.91		N
ATOM	8216		PRO C		34.356	66.253	69.339	1.00 33.43		С
ATOM	8219	CG .			33.774	64.977	68.720	1.00 33.40		С
ATOM	8222	CD	PRO C		33.089	64.256	69.797	1.00 33.58		С
ATOM	8225	C	PRO C	201	32.787	65.193	70.878	1.00 33.69		С
ATOM	8226	õ	PRO C	, 25T	34.011	67.452	68.462	1.00 32.89		С
ATOM	8227	Ŋ	TRP C		32.862	67.908	68.471	1.00 32.37		0
ATOM	8229	CA	TRP C		34.986	67.957	67.718	1.00 32.56		. И
ATOM	8231	CB	TRP C		34.679	68.934	66.686	1.00 32.35		C
ATOM	8234	CG	TRP C	272	35.944	69.601	66.140	1.00 32.11		С
ATOM	8235		TRP C	252	35.644 - 35.682	70.693	65.138	1.00 29.88		С
ATOM	8237	NF1	TRP C	252		70.590	63.784	1.00 28.00		С
ATOM	8239	CE2	TRP C	252	35.329 35.055	71.785	63.212	1.00 27.26		N
ATOM	8240	CD2	TRP C	252	35.243	72.690	64.201	1.00 26.41	•	С
ATOM	8241	CE3	TRP C	252	35.243	72.035	65.427	1.00 27.25		С
ATOM	8243	CZ3	TRP C	252	34.615	72.751	66.608	1.00 27.05		C
ATOM	8245	CH2	TRP C	252	34.447	74.085 74.706	66.525	1.00 26.17		C
				. 252	J4.44/	14.100	65.284	1.00 25.83		С

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ATOM	8247	CZ2	TRP	С	252	3	4.661	74.028	64.116	1.00	25.44	С
ATOM	8249	С	TRP	С	252	3.	3.952	68.186	65.570	1.00	32.80	С
ATOM	8250	0	TRP				4.509	67.232	65.025	-	32.69	Ö
MOTA	8251	N	PRO				2.713	68.574	65.253		33.34	N
MOTA	8252	CA	PRO		253		1.984	67.939	64.147	1.00	33.88	С
ATOM	8254	CB	PRO	С	253	3	0.613	68.655	64.147	1.00	33.74	С
ATOM	8257	CG	PRO	C	253		0.713	69.791	65.065		33.48	Ċ
ATOM	8260	CD	PRO		253		1.897	69.594	65.939		33.29	C
												C
MOTA	8263	С	PRO				2.697	68.001	62.763	1.00	34.60	С
ATOM	8264	0	PRO	С	253	3	2.411	68.878	61.939	1.00	34.89	0
ATOM	8265	N	ALA	C	254	3	3.605	67.045	62.532	1.00	35.09	N
ATOM	8267	CA	ALA				4.331	66.899	61.271		35.12	Č
												C
ATOM	8269	CB	ALA				5.663	66.175	61.496		35.06	C
ATOM	8273	С	ALA	С	254		3.462	66.113	60.299	1.00	34.95	C
MOTA	8274	0	ALA	С	254	3	2.531	66.666	59.720	1.00	34.81	0
ATOM	8275	N	GLN				6.034	75.361	59.136		34.42	N
ATOM	8277	CA	GLN		259		4.632	75.823	59.219		34.77	C
ATOM	8279	CB	GLN				4.152	76.445	57.876	1.00	35.11	C
MOTA	8282	CG	GLN	С	259	2	3.924	78.004	57.935	1.00	36.15	С
ATOM	8285	CD	GLN		259		2.642	78.488	57.206		37.82	Ċ
ATOM	8286	OE1	GLN				2.260	79.675	57.322		39.20	ŏ
ATOM .	8287	NE2	GLN				1.988	77.583	56.462		35.43	N
ATOM	8290	С	GLN	С	259	2	3.602	74.780	59.740	1.00	34.03	C
ATOM	8291	0	GLN	С	259	2	2.420	75.113	59.872	1.00	33.75	0
ATOM	8292	N	SER				4.036	73.549	60.044		33.33	N
MOTA	8294	CA	SER				3.219		60.853		32.74	
								72.625				C
MOTA	8296	CB			260		3.827	71.210	60.892		32.55	С
ATOM	8299	OG	SER	С	260	2	3.138	70.349	61.793	1.00	31.99	0
ATOM	8301	С	SER	С	260	2	3.115	73.227	62.262	1.00	32.60	С
ATOM	8302	Ō			260		4.105	73.762	62.787		32.47	Ö
MOTA	8303	N			261		1.920	73.170	62.858			N
ATOM	8305	CA	ARG				1.679	73.830	64.144	1.00	31.83	C
MOTA	8307	CB	ARG	С	261	2	0.199	74.230	64.335	1.00	31.96	С
MOTA	8310	CG	ARG	С	261	1	9.869	75.702	63.931	1.00	33.08	С
ATOM	8313	CD			261		8.946	75.860	62.706		34.91	Č
_												
MOTA	8316	NE			261		7.545	75.543	63.025		36.69	N
MOTA	8318	cz	ARG		261		6.934	74.357	62.826		37.43	C
MOTA	8319	NH1	ARG	С	261	1	7.575	73.322	62.288	1.00	37.47	N
ATOM	8322	NH2	ARG	С	261	1	5.655	74.204	63.171	1.00	37.56	N
MOTA	8325	С	ARG	C	261	2	2.194	72.974	65.295		31.11	C
ATOM	8326	ŏ			261		2.808	73.506	66.213		31.05	ŏ
MOTA	8327	N			262		1.975	71.661	65.234		30.40	N
MOTA	8329	CA			262	2	2.572	70.736	66.206	1.00	29.93	C
MOTA	8331	CB	ASP	С	262	2	2.117	69.305	65.951	1.00	30.03	C
ATOM	8334	CG			262	2	0.616	69.111	66.142		30.19	Ċ
ATOM	8335		ASP				9.944	68.672	65.187		30.32	_
												0
MOTA	8336		ASP				0.015	69.349	67.205		31.11	0
ATOM	8337	С	ASP	С	262	2	4.108	70.782	66.164	1.00	29.57	С
ATOM	8338	0	ASP	С	262	2	4.756	70.638	67.205	1.00	29.64	0
ATOM	8339	N			263		4.679	70.986	64.968		29.00	N
ATOM	8341	CA			263		6.142	71.119	64.782		28.34	
												C
MOTA	8343	CB			263		6.521	70.866	63.329		28.10	С
ATOM	8347	С	ALA	С	263	2	26.697	72.473	65.227	1.00	28.05	C
MOTA	8348	0	ALA	С	263	2	27.877	72.586	65.584	1.00	28.04	0
ATOM	8349	N			264		5.850	73.501	65.169		27.68	N
					264							
MOTA	8351	CA					26.188	74.837	65.655		27.18	C
ATOM	8353	CB			264		25.058	75.834	65.322		27.74	С
ATOM	8356	CG	ARG	С	264	2	25.486	77.267	64.952	1.00	30.13	C
ATOM	8359	CD			264		24.575	77.961	63.902		33.50	С
MOTA	8362	NE			264		25.125	77.859	62.540		37.36	N
MOTA	8364	CZ	AKG	C	264		26.043	78.688	61.989	1.00	40.28	С
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ATOM	8365	พมา	ARG	~	264	26.528	70 721	60 660	1 00			
ATOM	8368		ARG			26.482	79.731	62.662		41.58		N
ATOM	8371	C			264		78.479	60.744		41.03	•	N
ATOM	8372	Ö			264	26.391	74.703			25.99		С
ATOM	8373					27.453	75.008	67.647		25.58		0
		N			265	25.374	74.190	67.854		24.98		N
ATOM	8375	CA			265	25.361	73.998	69.305		24.58		С
ATOM	8377	CB			265	24.019	73.382	69.729		25.17		С
ATOM	8380	CG			265	23.785	73.104	71.245	1.00	27.23		С
ATOM	8383	CD			265	22.673	72.002	71.480	1.00	31.77		С
ATOM	8384		GLN			21.664	71.909	70.732	1.00	31.49		0
MOTA	8385	NE2	GLN			22.879	71.169	72.513	1.00	34.62		N
MOTA	8388	С	GLN	С	265	26.488	73.106			23.29		Ċ
ATOM	8389	, O			265	27.023	73.314	70.868		22.92		Ö
ATOM	8390	N	GLN	С	266	26.847	72.114			21.85		N
ATOM	8392	CA	GLN	С	266	27.948	71.227	69.327		20.84		Ċ
ATOM	8394	CB			266	27.961	69.976	68.460		21.06		č
ATOM	8397	CG	GLN		266	29.137	69.048	68.790		21.74		Č
ATOM	8400	CD			266	29.085	67.730	68.055		22.54		C
MOTA	8401		GLN			28.024	67.307			22.20		
ATOM	8402		GLN		266	30.238	67.075	67.953		22.63	_	0
ATOM	8405	C			266	29.299	71.917				•	N.
ATOM	8406	Ö			266			69.233		19.52		C
ATOM	8407	N			267	30.167	71.688	70.057		19.32		0
ATOM						29.485	72.749	68.221		18.43		N
	8409	CA			267	30.707	73.551	68.113		17.70		С
ATOM	8411	CB			267	30.783	74.267	66.771		18.24	•	С
ATOM	8414	CG	ARG			31.132	73.348	65.639		20.40		С
ATOM	8417	CD			267	31.076	74.008	64.290		23.57	•	С
ATOM	8420	NE	ARG	-	267	31.321	73.044	63.220		25.63		N
ATOM	8422	CZ			267	30.546	72.872	62.166	1.00	27.98		С
ATOM	8423		ARG			29.445	73.600	62.004		28.84		N
ATOM	8426		ARG		267	30.875	71.960	61.264	1.00	29.05		N
ATOM	8429	С	ARG			30.840	74.581	69.204	1.00	15.71		С
ATOM	8430	0	ARG		267	31.925	74.870	69.603	1.00	14.98		Ó
ATOM	8431	N	PHE	С	268	29.729	75.146	69.652	1.00	14.61		N
MOTA	8433	CA	PHE	С	268	29.735	76.136	70.714		14.06		Ċ
. ATOM	8435	CB	PHE	С	268	28.362	76.820	70.846		13.77		č
MOTA	8438	CG	PHE	С	268	28.190	77.607	72.113		13.29		č
ATOM	8439	CD1	PHE	С	268	28.887	78.764	72.316		14.01	•	č
ATOM	8441	CE1	PHE	С	268	28.730	79.493	73.497		15.81		č
MOTA	8443	CZ	PHE	С	268	27.866	79.050	74.481		15.75		č
ATOM	8445		PHE			27.157	77.891	74.275		15.55		č
ATOM	8447		PHE			27.322	77.179	73.099		14.11		č
MOTA	8449	.C	PHE			30.165	75.434	72.001		13.72		Č
ATOM	8450	ō.	PHE			31.000	75.938	72.732		12.92		Ö
ATOM	8451	N	ALA	Č	269	29.621	74.248	72.256		13.79		
ATOM	8453	CA	ALA			30.017	73.470			13.75		N
ATOM	8455	CB	ALA			29.192	72.179	73.536				. C
MOTA	8459	C	ALA	č	269	31.536	73.186			13.09		C
ATOM	8460	Ö	ALA			32.242	73.186	73.394 74.361		13.63		C
ATOM	8461	N	HIS							12.70		0
ATOM	8463					32.021	72.690	72.252		14.13		N
ATOM		CA	HIS			33.442	72.440	72.035		14.56		C
ATOM	8465	CB	HIS			33.746	72.133	70.545		14.66		С
	8468	CG	HIS			35.204	71.893	70.277		16.74		С
ATOM	8469		HIS			35.857	70.744	70.672		18.73		N
ATOM	8471		HIS			37.138	70.828	70.359		18.04		С
ATOM	8473		HIS			37.340	71.987	69.764		18.65		N
ATOM	8475		HIS			36.150	72.677	69.707		18.49		C
ATOM	8477	C			270 .	34.244	73.635	72.510	1.00	14.41		С
ATOM	8478	0	HIS			35.193	73.499	73.258		13.94		0
ATOM	8479	N	PHE			33.821	74.814	72.077		15.11		N
ATOM	8481	CA	PHE	С	271	34.479	76.089	72.388	1.00	15.73		С

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ATOM	8483	CB	סטע	C 271	33.773	77 100	71 (12	1 00 15 00	_
						77.198	71.613	1.00 15.88	C
MOTA	8486	CG		C 271	34.476	77.594	70.389	1.00 18.73	С
ATOM	8487			C 271	34.874	76.651	69.473	1.00 20.86	С
ATOM	8489	CE1	PHE	C 271	35.561	77.022	68.312	1.00 22.61	· č
ATOM	8491	CZ		C 271	35.873	78.333	68.072	1.00 23.46	
ATOM	8493			C 271	35.490				C
						79.302	68.989	1.00 25.08	. С
ATOM	8495			C 271	34.790	78.926	70.156	1.00 23.86	C
ATOM	8497	С	PHE	C 271	34.420	76.429	73.867	1.00 15.43	С
MOTA	8498	0	PHE	C 271	35.301	76.990	74.447	1.00 15.27	Ō
ATOM	8499	N		C 272	33.291	76.111	74.431	1.00 16.05	N
ATOM	8501	CA		C 272	32.954	76.322	75.815		
ATOM	8503	CB		C 272			75.015	1.00 16.18	C
					31.435	75.945	75.906	1.00 16.24	С
ATOM	8505			C 272	30.662	77.093	76.260	1.00 18.44	0
ATOM	8507	CG2		C 272	31.115	74.947	76.905	1.00 15.83	С
MOTA	8511	C	THR	C 272	33.909	75.508	76.710	1.00 16.06	С
ATOM	8512	0		C 272	34.369	75.986	77.742	1.00 16.06	Ö
ATOM	8513	N		C 273	34.270	74.312	76.256	1.00 16.17	
ATOM	8515	CA							N
				C 273	35.168	73.407	76.990	1.00 16.01	С
ATOM	8517	CB	GLU		34.916	71.944	76.588	1.00 15.86	CC
ATOM	8520	CG		C 273	33.509	71.506	76.950	1.00 17.12	С
ATOM	8523	CD	GLU	C 273	33.053	70.237	76.278	1.00 18.83	Č
ATOM	8524	OE1		C 273	31.896	70.177	75.770	1.00 17.58	. 0
ATOM	8525	OE2		C 273	33.854	69.289	76.311	1.00 23.37	
ATOM	8526	C		C 273					0
					36.627	73.783	76.788	1.00 15.47	С
ATOM	8527	0		C 273	37.434	73.573	77.662	1.00 15.17	0
MOTA	8528	N		C 274	36.971	74.355	75.650	1.00 15.35	N
MOTA	8530	CA		C 274	. 38.303	74.947	75.535	1.00 15.67	С
MOTA	8532	CB	LEU	C 274	38.675	75.292	74.069	1.00 15.77	Ċ
ATOM	8535	CG	LEU	C 274	38.623	74.150	73.040	1.00 16.76	č
ATOM	8537			C 274	39.106	74.592	71.689		C
ATOM	8541			C 274			71.009	1.00 15.92	C
					39.413	72.936	73.500	1.00 17.77	С
ATOM	8545	C		C 274	38.445	76.167	76.486	1.00 15.04	С
MOTA	8546	0		C 274	39.422	76.250	77.215	1.00 15.58	0
ATOM	8547	N	ALA	C 275	37.479	77.076	76.517	1.00 14.12	N
ATOM	8549	CA	ALA	C 275	37.538	78.172	77.473	1.00 14.24	Ċ
ATOM	8551	СВ	ALA		36.372	79.116	77.314	1.00 14.24	č
ATOM	8555	C		C 275	37.621	77.680	78.916		C C
ATOM	8556	ŏ		C 275				1.00 14.53	Č
ATOM					38.372	78.231	79.725	1.00 14.45	0
	8557	N	ILE		36.878	76.640	79.258	1.00 14.52	N
ATOM	8559	CA		C 276	37.017	76.125	80.613	1.00 14.89	. C
ATOM	8561	CB		C 276	35.952	75.057	80.921	1.00 14.62	C C
ATOM	8563	CG1	ILE	C 276	34.659	75.745	81.324	1.00 14.39	C
ATOM	8566	CD1	ILE	C 276	33.486	74.802	81.357	1.00 14.79	Ċ
ATOM	8570	CG2		C 276	36.378	74.145	82.042	1.00 15.05	č
ATOM	8574	C		C 276	38.472	75.648	80.894		
ATOM	8575	ŏ							C
				C 276	39.021	75.983	81.938	1.00 15.88	0
MOTA	8576	N		C 277	39.105	74.917	79.986	1.00 14.95	N
ATOM	8578	CA		C 277	40.508	74.571	80.181	1.00 15.24	С
ATOM	8580	CB	ILE	C 277	41.068	73.786	78.980	1.00 15.29	Ċ
ATOM	8582	CG1	ILE	C 277	40.395	72.418	78.849	1.00 14.81	Č
ATOM	8585			C 277	40.549	71.790	77.473		C
ATOM	8589			C 277				1.00 14.39	C
			THE	0 2//	42.569	73.589	79.115	1.00 15.22	С
ATOM	8593	C		C 277	41.365	75.835	80.453	1.00 16.14	С
ATOM	8594	0		C 277	42.272	75.817	81.306	1.00 15.48	0
MOTA	8595	N	SER	C 278	41.081	76.937	79.763	1.00 17.05	N
MOTA	8597	CA	SER	C 278	41.862	78.159	79.982	1.00 18.26	C
ATOM	8599	CB		C 278	41.579	79.195	78.913	1.00 18.25	Č
ATOM	8602	OG		C 278	42.183	78.803	77.710	1.00 18.23	•
ATOM	8604	C		C 278		70.003			0
ATOM	8605				41.606	78.794	81.328	1.00 18.55	C
		0	OEK '	C 278	42.535	79.250	81.976	1.00 18.73	0
MOTA	8606	N	VAL	C 279	40.337	78.854	81.717	1.00 19.13	N
									

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ATOM	8608	CA	VAL	C 279		39.946	79.399	82.996	1 00	10 20		
MOTA	8610	СВ		C 279		38.422				19.38		
ATOM	8612	CG1	VAL	C 279		38.068				19.63		
MOTA	8616	CG2	VAL	C 279		37.673				19.71		
ATOM	8620	С	VAL			40.742				19.37		
ATOM	8621	Ō		C 279		41.283				19.42		
ATOM	8622	N		C 280		40.844				18.84		
ATOM	8624	CA		C 280						20.05		
ATOM	8626	CB	CIN	C 280		41.561				20.99	-	
MOTA	8629					41.387				21.16		
MOTA	8632	CG		C 280		39.938			1.00	22.87		
ATOM		CD	GLN.			39.677			1.00	23.27		
	8633	OFI	GLN	C 280		40.022			1.00	23.04		
ATOM	8634			C 280		39.007				21.18		
ATOM	8637	Ĵ.	GLN			43.028		85.069		21.43	•	
ATOM	8638	0		C 280		43.582	77.252	86.122		22.17		
ATOM	8639	N	GLU	C 281		43.648	77.043			21.62		
ATOM	8641	CA	GLU	C 281		45.040	77.401		1.00	22.14		
ATOM	8643	CB	GLU	C 281		45.458	77.362	82.350		22.58		•
MOTA	8646	CG	GLU	C 281		45.460	75.961		1 00	23.93	•	
ATOM	8649	CD	GLU	C 281		46.005	75.892		1 00	25.78		
ATOM	8650	OE1	GLU	C 281		46.484	76.928		1.00	25.80		
ATOM	8651	OE2	GLU	C 281		45.953	74.781	79.794				
ATOM	8652	C	GLU	C 281		45.348	78.793			28.08		
ATOM	8653	ō		C 281		46.351	79.012			22.28		
ATOM	8654	N		C 282		44.504		85.047		22.14		·
ATOM	8656	CA		C 282		44.670	79.745	84.024		22.54		
MOTA	8658	СВ		C 282		43.659	81.095	84.519		22.92		
ATOM	8660	CG1		C 282			82.024	83.863		22.97		
ATOM	8663	CD1		C 282		43.989		82.383		23.12		
ATOM	8667	CG2	TIE	C 282		42.862	82.862	81.586	1.00			
ATOM	8671	C	TIE	C 282		43.652	83.368	84.588	1.00	24.23		
ATOM	8672	Ö		C 282		44.509	81.164	86.050	1.00			
ATOM	8673	N				45.172	81.981	86.687		24.19		
ATOM	8675		VAL	C 283		43.623	80.349	86.636	1.00			
ATOM	8677	CA	VAL	C 283		43.436	80.374	88.075	1.00	22.32		
ATOM	8679	CB		C 283		42.161	79.568	88.543	1.00	22.19		•
ATOM		CG1		C 283		42.222	79.274	90.040	1.00	21.88		
ATOM	8683	CG2		C 283		40.885	80.333	88.239	1.00	20.78		
ATOM	8687	C		C 283		44.711	79.834	88.757	1.00	22.63		
	8688	0		283		45.164	80.367	89.776	1.00	22.75		
MOTA	8689	N		284		45.279	78.771	88.202	1.00			
ATOM	8691	CA	ASP (46.484	78.174	88.761	1.00			
ATOM	8693	СВ	ASP (46.843	76.887	88.033	1.00	23.50		
ATOM	8696	CG	ASP (C 284		45.915	75.767	88.355	1.00	25.75		
ATOM	8697	OD1	ASP (284		45.928	74.776	87.589	1.00			
ATOM .	8698		ASP (45.144	75.788	89.345	1.00			
ATOM	8699	С	ASP (47.634	79.119	88.620	1.00			
MOTA	8700	0	ASP (284	•	48.455	79.250	89.520	1.00	22 04		
ATOM	8701	N	PHE C	285		47.697	79.781	87.473	1.00	21 76		
ATOM	8703	CA	PHE (48.791	80.695	87.216	1.00	21 35		
ATOM	8705	CB	PHE (48.822	81.161	85.760	1.00	20 06		
MOTA	8708	CG	PHE C	285		49.906	82.156	85.483	1.00	20.30		
ATOM	8709	CD1	PHE C	285		51.211	81.785	85.451	1.00	20.14		
MOTA	8711	CE1	PHE C	285		52.190	82.731	85.214	1.00	40.14		
ATOM	8713	CZ	PHE C	285		51.880	84.028	85.036				
MOTA	8715	CE2	PHE C	285		50.621	84.408	85.070	1.00	11.52		
ATOM	8717	CD2	PHE C	285		49.618	83.478		1.00 2			
ATOM	8719	С	PHE C	285		48.748	81.873	85.296	1.00 2			
ATOM	8720	ō	PHE C			49.776	82.187	88.208	1.00 2			
ATOM	8721	N	ALA C			47.573		88.819	1.00 2			
ATOM	8723	CA	ALA C			47.447	82.476	88.411	1.00 2			
ATOM	8725	СВ	ALA C	286		46.036	83.633	89.303	1.00 2			
		_				30.030	84.111	89.347	1.00 2	∠U.86		
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ATOM ATOM ATOM	8729 8730 8731	0	ALA C ALA C LYS C	2	286	47.93 48.58 47.63	1 1	83.331 84.183 82.108	90.717 91.346 91.181	1.00	21.37 20.40 21.89	C 0 N
ATOM	8733		LYS (48.03		81.617	92.494		22.91	C
ATOM	8735		LYS C			47.45		80.200	92.767		24.20	С
ATOM	8738		LYS C		287	45.99		80.062	93.408		28.09	C
ATOM ATOM	8741 8744		LYS (45.07 43.51		81.324 81.009	93.216 93.140	1.00	33.90	C C
ATOM	8747		LYS (42.89		80.562	94.443		36.46	N
ATOM	8751	С	LYS (2	287	49.56	8	81.580	92.624		22.37	С
MOTA	8752		LYS (50.07		81.671	93.730		22.07	0
ATOM	8753		GLN (50.28 51.76		81.419 81.415	91.507		22.16	N C
ATOM ATOM	8755 8757	CA CB	GLN GLN G			52.34		80.364	90.525		22.35	C
ATOM	8760	CG	GLN (52.17		78.882	90.981		24.94	č
MOTA	8763	CD	GLN (53.22	-	78.394	92.061		29.71	С
MOTA	8764		GLN (53.58		79.133	93.000		33.10	0
MOTA	8765 8768	NE2 C	GLN GLN			53.68 52.40		77.148 82.787	91.914 91.271		30.72 20.81	N C
ATOM ATOM	8769	0	GLN (53.60		82.910			20.00	ŏ
ATOM	8770	N	VAL			51.59		83.814	91.054		20.62	N
MOTA	8772	CA	VAL	С	289	52.10		85.189	90.927		20.38	C
MOTA	8774	CB	VAL			51.11		86.084	90.141		20.08	C
ATOM ATOM	8776 8780		VAL VAL			51.61 50.92		87.489 85.567	90.103 88.728		20.13 19.83	C C
ATOM	8784	CGZ	VAL			52.28		85.775	92.337		20.40	Č
ATOM	8785	ŏ	VAL			51.30		85.863	93.089		20.53	0
MOTA	8786	N	PRO			53.50		86.160	92.722		20.04	N
ATOM	8787	CA	PRO			53.71		86.672	94.083		19.48	C
ATÓM ATOM	8789 8792	CB CG	PRO PRO			55.19 55.83		87.062 86.367	94.105 92.956		19.41 19.42	C C
ATOM	8795	CD	PRO			54.76		86.136	91.944		19.87	č
ATOM	8798	C	PRO			52.83		87.879	94.342		19.25	С
ATOM	8799	0	PRO			52.65		88.740	93.473		18.38	0
ATOM	8800	N	GLY		291	52.23		87.919	95.525		19.53 19.72	N C
ATOM ATOM	8802 8805	CA C	GLY GLY			51.32 49.85		89.009 88.656	95.886 95.740		20.00	C
ATOM	8806	ŏ	GLY			49.03		89.109	96.516		19.68	ŏ
ATOM	8807	N	PHE	С	292	49.5		87.845	94.738		20.11	N
MOTA	8809	CA	PHE			48.13		87.538	94.451		19.77	C
ATOM	8811 8814	CB CG	PHE PHE			48.02 46.60		86.597 86.360	93.250 92.821		19.74 18.39	C C
ATOM ATOM	8815		PHE			45.9		87.341	92.157		17.92	C
ATOM	8817		PHE			44.5		87.142	91.817		17.58	С
MOTA	8819	CZ				43.9		85.950	92.128		16.95	C
ATOM	8821		PHE			44.6 45.9		84.976 85.189	92.776 93.145		15.96 16.46	C
ATOM ATOM	8823 8825	CD2	PHE PHE			47.4		86.946	95.661		20.36	C
ATOM	8826	ŏ	PHE			46.4		87.449	96.083		20.37	ŏ
ATOM	8827	N	LEU	С	293	48.0		85.891	96.234		21.32	N
MOTA	8829	CA	LEU			47.3		85.212	97.373		21.95	C
ATOM	8831 8834	CB CG	LEU LEU			47.9 47.6		83.815 82.680	97.597 96.614		21.81 21.20	C
MOTA MOTA	8836		LEU			48.4		81.475	96.968		21.14	Č
ATOM	8840		LEU			46.2		82.287	96.583		21.07	C
MOTA	8844	С	LEU	С	293	47.4	76	86.023	98.671		23.07	С
ATOM	8845	0			293	46.9		85.605	99.690		23.23	0
ATOM ATOM	8846 8848	N CA			294 294	48.2 48.2		87.149 88.137	98.633 99.730		24.35 25.42	N C
MOTA	8850	CB			294	49.4		89.148	99.588		26.23	Č
ATOM	8853	CG			294	50.6			100.392		29.60	C
												

ATOM	8856	CD	GLN	C 294		51.547	87.742	99.774	1 00 25 06
ATOM	8857	OE1				52.159	87.936	98.705	1.00 35.06
ATOM	8858	NE2		C 294		51.576		100.433	1.00 38.85
ATOM	8861	С		C 294	•	46.944	88.916	99.799	1.00 36.90
ATOM	8862	0		C 294		46.451		100.878	1.00 24.88
ATOM ·	8863	N		C 295		46.407	89.322		1.00 25.51
ATOM	8865	CA	LEU	C 295		45.109		98.651	1.00 24.46
ATOM	8867	СВ	LEU	C 295		44.701	89.987	98.571	1.00 24.18
ATOM	8870	CG		C 295		45.531	90.228	97.101	1.00 24.14
ATOM	8872	CD1		C 295			91.273	96.334	1.00 25.01
ATOM	8876	CD2		C 295		45.279	91.235	94.831	1.00 25.31
ATOM	8880	C		C 295		45.272	92.690	96.830	1.00 26.82
ATOM	8881	ŏ	LEU	C 295		44.077	89.103	99.232	1.00 23.84
ATOM	8882	N		C 296		44.241	87.900	99.255	1.00 23.57
ATOM	8884	CA		C 296		43.014	89.692	99.766	1.00 23.81
ATOM	8887	C				41.932	88.918	100.359	1.00 24.24
ATOM	8888	Ö		C 296 C 296		41.176	88.180	99.282	1.00 24.60
ATOM	8889	N				41.317	88.516	98.141	1.00 25.20
ATOM	8891	CA		C 297		40.382	87.178	99.616	1.00 25.29
ATOM	8893		ARG			39.701	86.402	98.580	1.00 25.96
ATOM	8896	CB		C 297		38.886	85.236	99.167	1.00 26.96
ATOM		CG		C 297		38.658	84.012	98.216	1.00 30.64
	8899	CD		C 297		38.116	82.739	98.985	1.00 36.42
ATOM	8902	NE		C 297		37.400	81.748	98.153	1.00 40.44
ATOM	8904	CZ	ARG	C 297		36.145	81.884	97.675	1.00 43.02
ATOM	8905			C 297		35.423	82.984	97.920	1.00 43.84
ATOM	8908	NH2		C 297		35.607	80.911	96.939	1.00 43.40
ATOM	8911	C	ARG			38.793	87.275	97.737	1.00 25.23
ATOM	8912	0		C 297		38.711	87.058	96.533	1.00 25.49
ATOM	8913	N	GLU	C 298		38.109	88.252	98.332	1.00 24.35
ATOM	8915	CA		C 298		37.149	89.043	97.548	1.00 23.70
ATOM	8917	СВ		C 298		36.478	90.111	98.404	1.00 23.99
ATOM	8920	CG		C 298		35.483	89.554	99.418	1.00 26.24
ATOM	8923	CD		C 298		36.128	89.176	100.739	1.00 29.32
ATOM	8924			C 298		37.249	89.667	100.996	1.00 30.46
ATOM	8925	OE2	GLU	C 298		35.521	88.387	101.518	1.00 31.60
ATOM	8926	C		C 298		37.843	89.675	96.329	1.00 22.40
MOTA	8927	0		C 298		37.306	89.686	95.224	1.00 21.30
ATOM	8928	N		C 299		39.059	90.158	96.551	1.00 21.45
ATOM	8930	CA		C 299		39.857	90.796	95.517	1.00 21.01
ATOM	8932	СВ		C 299		40.911	91.725	96.130	1.00 20.70
ATOM	8935	CG	ASP			40.315	93.056	96.599	1.00 21.37
ATOM	8936			C 299		39.244	93.430	96.077	1.00 21.01
ATOM	8937			C 299		40.827	93.789	97.487	1.00 22.23
MOTA	8938	C	ASP			40.497	89.803	94.561	1.00 20.83
ATOM	8939	0		C 299		40.613	90.085	93.372	1.00 21.04
MOTA	8940	N		C 300		40.904	88.648	95.055	1.00 20.50
ATOM	8942	CA		C 300		41.388	87.596	94.176	1.00 20.66
ATOM	8944	CB		C 300		41.731	86.315	94.970	1.00 20.16
ATOM	8947	CG		C 300		42.991	86.449	95.870	1.00 18.84
ATOM	8950	CD	GLN	C 300		43.195	85.243	96.745	1.00 16.77
MOTA	8951	OE1	GLN (C 300		43.030	84.136	96.271	1.00 18.45
ATOM	8952		GLN (C 300		43.543	85.442	98.014	1.00 13.14
ATOM	8955	C		C 300		40.331	87.313	93.094	1.00 21.42
MOTA	8956	0		C 300		40.639	87.268	91.886	1.00 21.42
ATOM	8957	N		C 301		39.090	87.163	93.540	1.00 21.90
MOTA	8959	CA	ILE (C 301		37.971	86.851	92.662	1.00 22.51
ATOM	8961	CB		C 301		36.708	86.448	93.504	1.00 22.67
MOTA	8963	CG1	ILE (C 301		36.953	85.082	94.166	1.00 22.78
MOTA	8966	CD1	ILE (C 301		36.086	84.819	95.338	1.00 22.78
ATOM	8970	CG2		C 301		35.434	86.413	92.646	1.00 22.78
MOTA	8974	С		C 301		37.654	87.973	91.670	1.00 22.92

ATOM	MOTA	8975	0	ILE		301		37.496	87.704	90.483		23.46	0
ATOM 8984 C ALC 3002 38.393 90.525 90.165 1.00 24.17 C ATOM 8985 O ALA C 3002 38.393 90.525 88.3972 1.00 24.18 N ATOM 8986 N LEU C 303 39.664 90.517 90.589 1.00 24.48 N ATOM 8986 C ALEU C 303 40.801 90.572 89.664 1.00 24.48 N ATOM 8990 CB LEU C 303 42.128 90.542 1.00 24.49 C ATOM 8993 CG LEU C 303 42.128 90.542 1.00 24.40 C ATOM 8993 CG LEU C 303 42.128 90.542 1.00 24.55 C ATOM 8995 CDL LEU C 303 42.128 90.542 1.00 24.25 C ATOM 8995 CDL LEU C 303 42.128 90.542 1.00 24.25 C ATOM 8999 CB LEU C 303 42.128 90.542 1.00 24.25 C ATOM 8999 CDL LEU C 303 40.794 89.757 87.644 1.00 24.55 C ATOM 8999 CDL LEU C 303 40.794 89.757 87.414 1.00 25.28 O ATOM 9004 C LEU C 303 40.794 89.757 87.414 1.00 25.28 C ATOM 9007 CA LEU C 304 40.683 88.216 88.989 1.00 25.26 C ATOM 9007 CA LEU C 304 40.683 88.216 88.989 1.00 25.26 C ATOM 9012 CG LEU C 304 40.659 87.137 88.007 1.00 26.09 C ATOM 9012 CG LEU C 304 40.659 87.137 88.007 1.00 26.09 C ATOM 9012 CG LEU C 304 41.990 83.863 89.130 1.00 27.18 C ATOM 9012 CG LEU C 304 42.033 85.320 89.130 1.00 27.18 C ATOM 9012 CG LEU C 304 42.039 83.863 89.418 1.00 25.78 C ATOM 9022 C LEU C 304 42.039 83.863 89.418 1.00 25.58 C ATOM 9022 C LEU C 304 43.012 85.629 88.029 1.00 29.72 C ATOM 9022 C LEU C 304 43.012 85.629 88.029 1.00 29.72 C ATOM 9022 C LEU C 304 43.012 85.629 88.029 1.00 29.72 C ATOM 9024 N LYS C 305 38.218 87.795 87.717 1.00 25.82 C ATOM 9024 N LYS C 305 38.218 87.795 87.717 1.00 25.82 C ATOM 9024 N LYS C 305 38.218 87.695 87.751 1.00 25.56 N ATOM 9037 CE LYS C 305 35.813 88.203 88.785 1.00 24.10 0.24.10 C ATOM 9031 CG LYS C 305 33.408 88.364 87.750 1.00 24.15 N ATOM 9037 CE LYS C 305 33.408 88.354 87.750 1.00 24.15 N ATOM 9037 CE LYS C 305 33.308 88.354 87.750 1.00 24.15 N ATOM 9036 C BER C 307 41.913 88.203 88.246 1.00 24.10 0.24.10 C ATOM 9037 CE LYS C 305 33.1984 88.662 87.500 1.00 24.69 C ATOM 9037 CE LYS C 305 33.308 88.354 87.750 1.00 24.53 C C ATOM 9050 C BER C 307 41.913 88.203 88.353 1.00 24.69 C C ATOM 9050 C BER C 307 41.913 88.205 88.239 1.00 24.10 0.24.10 C ATOM 9050 C BER		8976						37.567	89.213	92.136			N
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ATOM 9065 C SER C 307 41.142 88.334 82.868 1.00 24.11 C ATOM 9066 O SER C 307 41.913 88.210 81.904 1.00 24.50 O ATOM 9067 N THR C 308 40.216 87.428 83.179 1.00 22.90 N ATOM 9069 CA THR C 308 40.264 86.105 82.578 1.00 22.16 C ATOM 9071 CB THR C 308 39.182 85.214 83.140 1.00 22.11 C ATOM 9073 OG1 THR C 308 39.520 84.866 84.471 1.00 22.43 O ATOM 9075 CG2 THR C 308 39.183 83.857 82.474 1.00 22.57 C ATOM 9079 C THR C 308 40.153 86.169 81.076 1.00 21.89 C ATOM 9080 O THR C 308 40.914 85.513 80.355 1.00 21.92 O ATOM 9081 N ILE C 309 39.208 86.954 80.592 1.00 21.40 N ATOM 9083 CA ILE C 309 39.208 86.954 80.592 1.00 21.40 N ATOM 9085 CB ILE C 309 37.712 87.774 78.822 1.00 20.90 C ATOM 9087 CG1 ILE C 309 37.416 87.631 77.344 1.00 20.93 C ATOM 9090 CD1 ILE C 309 37.416 87.631 77.344 1.00 20.93 C ATOM 9094 CG2 ILE C 309 37.472 86.250 76.858 1.00 21.61 C ATOM 9098 C ILE C 309 40.213 87.742 78.822 1.00 21.81 C ATOM 9098 C ILE C 309 40.213 87.742 86.250 76.858 1.00 21.61 C ATOM 9098 C ILE C 309 40.213 87.720 78.474 1.00 22.57 O ATOM 9090 CD1 ILE C 309 40.213 87.720 78.474 1.00 22.57 O ATOM 9100 N GLU C 310 40.818 88.682 79.166 1.00 22.57 O ATOM 9100 N GLU C 310 40.818 88.682 79.166 1.00 20.98 C ATOM 9102 CA GLU C 310 41.905 89.450 78.600 1.00 20.98 C													
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ATOM 9104 CB GLU C 310 42.221 90.682 79.447 1.00 20.83 C			N	GLU	С	310							
							-						
ATOM 9107 CG GLU C 310 41.015 91.617 79.538 1.00 20.94 C													
	ATOM	9107	CG	GLU	C	310		41.015	91.617	79.538	1.00	20.94	C

ATOM	9110	CD	GLU	C	310	Δ	1.296	92.901	80.275	1 00	20 00		_
ATOM	9111		GLU	č	210						20.86	•	С
							2.476	93.127	80.564		21.98		0
ATOM	9112	OE2			310	4	0.343	93.668	80.573	1.00	19.88		0
ATOM	9113	С	GLU	С	310	4	3.058	88.523	78.491		20.63		Č
ATOM	9114	0	GLU	С	310	4	3.712	88.509	77.469		21.17		
ATOM	9115	N			311		3.290	87.699					0
ATOM	9117								79.500		20.65		N
		CA	ILE				4.471	86.830	79.474	1.00	20.84		С
MOTA	9119	СВ			311	. 4	4.759	86.187	80.846		21.33		Ċ
MOTA	9121	CG1	ILE	С	311	4	5.413	87.194	81.797		21.11		č
ATOM	9124	CD1	ILE	C	311		5.275	86.773	83.279				C
ATOM	9128	CG2	· ILE	Č	211						21.03		С
-							5.691	84.973	80.742	1.00	22.06		С
ATOM	9132	С			311		4.287	85.782	78.404	1.00	21.02		С
ATOM	9133	0	ILE	С	311	4	5.278	85.423	77.777	1.00	21.65		ō
ATOM	9134	N	MET	С	312		3.045	85.319	78.164		20.81		
ATOM	9136	CA	MET				2.738	84.365					N
MOTA	9138	СВ			312				77.068		20.33		С
						-	1.282	83.934	77.084		20.38		C
MOTA	9141	CG			312	4	0.907	83.010	78.244	1.00	22.03		С
ATOM	9144	SD	\mathtt{MET}	С	312	3	9.130	82.820	78.407		23.29		Š
ATOM	9145	CE	MET	С	312		9.092	81.695			26.02		3
ATOM	9149	C			312		3.004			1.00	20.02		С
ATOM								84.975	75.707	1.00	20.48		C
•	9150	0	MET		312		3.417	84.277	74.774	1.00	20.46		0
MOTA	9151	N	LEU	С	313	4	2.761	86.288	75.588	1.00	20.32		N
ATOM	9153	CA	LEU	С	313	4	3.016	87.002	74.349		19.95		C
ATOM	9155	CB	LEU		313		2.349	88.349	74.395				_
ATOM	9158	CG			313						19.65		C
ATOM	9160						0.838	88.317	74.231		20.60		С
		CD1			313		0.323	89.657	74.601	1.00	22.49		.C
ATOM	9164	CD2	LEU			4	0.421	88.043	72.809	1.00	22.11		С
ATOM	9168	С	LEU	С	313	4	4.517	87.114	74.062		20.48	•	č
MOTA	9169	0	LEU	C	313		4.970	86.986	72.910			•	
ATOM	9170	N	LEU		314		5.285				19.41		0
								87.350	75.119		21.36		N
ATOM	9172	CA			314		6.742	87.304	75.031	1.00	22.27		C
ATOM	9174	CB	LEU	С	314	4	7.378	87.756	76.341	1.00	22.10		С
MOTA	9177	CG	LEU	С	314	4	8.051	89.097	76.593		22.13		č
ATOM	9179	CD1	LEU				7.813	90.060					_
ATOM	9183	CD2	LEU	č	214				75.558		23.29		С
							7.573	89.669	77.902		23.63		C
MOTA	9187	С			314	4	7.219	85.871	74.675	1.00	23.00		С
ATOM	9188	0	LEU	С	314	4	7.987	85.708	73:731		23.62		ō
ATOM	9189	N	GLU	С	315		6.781	84.842	75.403		23.38		
ATOM	9191	CA			315		7.194	83.441					N
ATOM	9193	CB							75.088		23.93		С
					315		6.679	82.410	76.120		24.28		С
MOTA	9196	CG	GLU		315	. 4	7.382	82.504	77.476	1.00	27.22		С
ATOM	9199	CD	GLU	С	315	4	8.870	82.108	77.415		30.37		Č
ATOM	9200	OE1	GLU	С	315		9.186	81.092	76.775		32.39		$\tilde{\sim}$
ATOM	9201		GLU				9.728	82.806					0
ATOM	9202								77.994		31.87		0
		C			315		6.745	83.017	73.700		23.07		С
ATOM	9203	0	GLU				7.485	82.353	73.000	1.00	23.02		0
ATOM	9204	N	THR	С	316	4	5.539	83.428	73.307	1.00	22.38	•	N
MOTA	9206	CA	THR	С	316		5.020	83.212	71.946		21.67		
ATOM	9208	CB			316		3.589	83.855					C
ATOM	9210		mun	\tilde{a}	21.0			03.033	71.857		21.88		С
			THR				2.615	83.046	72.539		20.43		0
MOTA	9212	CG2					3.091	83.941	70.394	1.00	22.37		С
ATOM	9216	С	THR	С	316	4.	5.982	83.859	70.889		20.90		Č
ATOM	9217	0	THR	С	316		6.480	83.209	69.976		19.95		
ATOM	9218	N	ALA				6.228	85.148					0
ATOM	9220	CA							71.048		20.05		N
			ALA				7.092	85.868	70.168		20.00		С
MOTA	9222	CB	ALA			4	7.249	87.275	70.678	1.00	20.45		С
ATOM	9226 .	С	ALA	С	317	4:	8.438	85.175	70.092		20.26		C
ATOM	9227	0	ALA				8.931	84.875	69.034		19.99		
MOTA	9228	N	ARG				9.031						0
ATOM	9230							84.887	71.230		21.12		N
		CA	ARG				0.324	84.186	71.273	1.00	21.70		С
MOTA	9232	CB	ARG	C	318	5	0.663	83.913	72.735	1.00	22.23		С

ATOM	9235	CG	ARG	С	318	51.9	943	83.198	73.021	1.00	24.76	С
ATOM	9238	CD	ARG			51.		82.735	74.441		29.47	c
ATOM	9241	NE	ARG	C	318	53.3		82.767	74.979		34.52	N
ATOM	9243	CZ	ARG	С	318	53.0		83.006	76.263		38.26	C
ATOM	9244	NH1	ARG	С	318	52.6		83.248	77.171		39.13	N
ATOM	9247	NH2	ARG			54.8		82.994	76.643		39.06	N
ATOM	9250	С	ARG			50.3		82.877	70.481		20.96	C
ATOM	9251	0			318	51.4		82.466	70.056		20.67	ŏ
ATOM	9252	N			319	49.2		82.218	70.325		21.00	N
ATOM	9254	CA	ARG	С	319	49.3		80.935	69.613		21.52	c
ATOM	9256	CB	ARG	С	319	48.3		80.009	70.347		22.53	Č
ATOM	9259	CG	ARG			48.		79.186	71.485		25.78	č
ATOM	9262	CD	ARG	С	319	47.		78.810	72.591		30.60	č
ATOM	9265	NE	ARG	С	319	48.4		78.230	73.736		34.90	N
ATOM	9267	CZ	ARG	С	319	49.2	802	78.920	74.610		36.03	Ĉ
ATOM	9268	NH1	ARG	С	319	49.3	361	80.244	74.516		35.20	N
ATOM	9271	NH2	ARG			49.8		78.268	75.594		36.20	N
ATOM	9274	С	ARG			48.0	561	81.085	68.167		20.46	C
ATOM	9275	0			319	48.4	460	80.095	67.474	1.00	19.77	Ō
MOTA	9276	N	TYR	С	320	48.4	173	82.329	67.738	1.00	19.64	N
ATOM	9278	CA	TYR			48.0		82.639	66.402		19.22	С
ATOM	9280	CB			320	47.0	636	84.135	66.256		19.39	C
ATOM	9283	CG	TYR			47.2	295	84.550	64.831	1.00	18.42	С
ATOM	9284		TYR			46.0	083	84.202	64.253	1.00	17.75	C
ATOM	9286		TYR			45.	786	84.575	62.960	1.00	17.76	C
MOTA	9288	\mathbf{cz}	TYR			46.		85.296	62.216		17.42	С
ATOM	9289	OH	TYR			46.		85.661	60.914		19.24	0
ATOM	9291	CE2			320	47.9		85.644	62.766		16.45	С
ATOM	9293	CD2			320	48.		85.271	64.064		17.01	С
MOTA	9295	C	TYR			49.0		82.281	65.377		18.95	С
ATOM	9296	0			320	50.		82.733	65.450		18.89	0
ATOM	9297	N			321	48.0		81.474	64.407		18.89	N
ATOM	9299	CA	ASN			49.		81.088	63.325		18.85	С
ATOM	9301	CB			321	49.3		79.594	63.116		19.14	С
ATOM	9304	CG			321	50.2		79.065	62.041		19.83	С
ATOM	9305		ASN			51.3		78.491	62.336		23.90	0
ATOM	9306		ASN			49.8		79.252	60.794		18.73	N
ATOM ATOM	9309 9310	C	ASN		321 321	49.3		81.863	62.063		18.64	C
ATOM	9311	O N	HIS			48.0		81.690	61.541		18.17	0
ATOM	9313	CA	HIS			50.0		82.715	61.567		18.15	N
ATOM	9315	CB			322	49.0 50.4		83.563	60.428		17.63	C
ATOM	9318	CG			322	49.8		84.917 85.919	60.431		17.80	C
ATOM	9319		HIS			48.5		86.452	59.480 59.653		18.50 18.45	C
ATOM	9321		HIS			48.2		87.275			17.20	С
ATOM	9323		HIS			49.3		87.283	57.829		17.20	
ATOM	9325		HIS			50.2		86.441	58.318		18.66	С
ATOM	9327	C			322	49.8		82.858	59.102		16.73	c
ATOM	9328	Ö			322	49.2		83.293	58.124		16.50	Ö
ATOM	9329	N			323	50.6		81.765	59.047		16.36	И
ATOM	9331	CA			323	50.6		80.947	57.814		15.96	C
ATOM	9333	СВ			323	51.6		79.810	57.935		16.08	c
ATOM	9336	CG			323	51.		78.979	56.657		18.17	c
ATOM	9339	CD			323	52.8		77.917	56.678		19.03	c
ATOM	9340		GLU			53.5		77.808	57.690		20.63	ŏ
ATOM	9341		GLU			52.9		77.177	55.683		18.53	ŏ
ATOM	9342	С			323	49.2		80.384	57.421		15.03	č
ATOM	9343	0	GLU	С	323	48.		80.296	56.247		13.86	ŏ
MOTA	9344	N			324	48.4	183	80.055	58.431		14.77	N
ATOM	9346	CA			324	47.		79.393	58.285		14.57	Ĉ
ATOM	9348	CB			324	47.3		78.062	59.140		15.16	Č
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ATOM	9350	OG1	LTHR	C 324		47.434	78.329	60.540	1.00 14.64	
ATOM	9352	CG2	THR	C 324		48.246	77.040	58.670	1.00 14.64	
ATOM	9356	С	THR			46.002	80.275	58.706	1.00 13.97	
ATOM	9357	0	THR			44.857	79.920	58.490	1.00 13.36	
ATOM	9358	N		C 325		46.303	81.424	59.314	1.00 14.85	
ATOM	9360	CA	GLU			45.313	82.384	59.849	1.00 14.59	
ATOM	9362	СВ	GLU			44.601	83.107	58.716	1.00 14.04	
ATOM	9365	CG	GLU			45.546	84.001	57.941	1.00 12.44	
ATOM	9368	CD	GLU			44.904	84.690	56.756	1.00 11.07	
ATOM	9369	OE1		C 325		43.662	84.777	56.678	1.00 10.49	
ATOM ATOM	9370	OE2				45.663	85.167	55.899	1.00 9.70	
ATOM	9371 9372	C	GLU			44.348	81.710	60.820	1.00 15.35	
ATOM	9373	о И	GLU			43.140	81.847	60.734	1.00 15.10	
ATOM	9375	CA	CYS CYS			44.942	80.990	61.760	1.00 16.63	
ATOM	9377	CB		C 326 C 326		44.243	80.114	62.664	1.00 17.79	
ATOM	9380	SG	CYS			44.515 43.326	78.680	62.252	1.00 17.93	
ATOM	9381	C		C 326		43.326	78.130	61.051	1.00 17.07	
ATOM	9382	ō	CYS	C 326		45.980	80.287 80.432	64.047	1.00 19.77	
ATOM	9383	N	ILE			43.882	80.248	64.235 65.025	1.00 19.66	
ATOM	9385	CA		C 327		44.283	80.131	66.423	1.00 22.43	
ATOM	9387	CB		C 327		43.214	80.733	67.310	1.00 24.44 1.00 24.68	
MOTA	9389	CG1	ILE	C 327		43.197	82.250	67.068	1.00 24.44	
ATOM	9392	CD1		C 327		41.889	82.845	67.350	1.00 25.51	
ATOM	9396	CG2		C 327		43.473	80.370	68.786	1.00 25.12	
ATOM	9400	С	ILE			44.547	78.676	66.782	1.00 26.15	
ATOM	9401	0	ILE			43.727	77.792	66.522	1.00 25.84	
ATOM ATOM	9402	N		C 328		45.700	78.436	67.383	1.00 28.62	
ATOM	9404 9406	CA CB		C 328 C 328		46.125	77.075	67.670	1.00 30.85	
ATOM	9408		THR		•	47.472	76.849	67.056	1.00 30.89	
ATOM	9410	CG2		C 328		47.390 47.844	77.153	65.659	1.00 31.59	
ATOM	9414	C		C 328		46.170	75.354 76.770	67.117	1.00 32.19	
ATOM	9415	0	THR			47.248	76.775	69.161 69.753	1.00 32.50 1.00 32.90	
ATOM	9416	. N	PHE	C 329		44.985	76.564	69.744	1.00 32.90 1.00 34.40	
ATOM	9418	CA	PHE	C 329		44.814	76.137	71.136	1.00 35.56	
ATOM	9420	СВ	PHE			43.352	75.806	71.391	1.00 35.71	
ATOM	9423	CG		C 329		42.971	75.773	72.846	1.00 37.29	
ATOM ATOM	9424 9426	CD1		C 329		42.570	76.962	73.507	1.00 37.15	
ATOM	9428	CE1 CZ	PHE			42.181	76.942	74.852	1.00 36.69	
ATOM	9430	CE2		C 329 C 329		42.198	75.713	75.564	1.00 38.22	
ATOM	9432		PHE	C 329		42.591 42.963	74.497	74.899	1.00 37.78	
ATOM	9434	C		C 329		42.963	74.542 74.915	73.552	1.00 37.96	
ATOM	9435	0	PHE	C 329	•	46.287	74.893	71.484 72.570	1.00 36.59	
ATOM	9436	N	LEU	C 330		45.742	73.920	70.582	1.00 37.17 1.00 37.22	
ATOM	9438	CA	LEU	C 330		46.641	72.740	70.750	1.00 37.22	
MOTA	9440	CB	LEU	C 330		45.912	71.602	71.491	1.00 37.38	
ATOM	9443	CG	LEU	C 330		46.350	71.300	72.931	1.00 40.08	
MOTA	9445	CD1	LEU	C 330		46.032	69.817	73.265	1.00 41.39	
ATOM	9449			C 330		47.845	71.598	73.186	1.00 40.84	
ATOM ATOM	9453 9454	C O		C 330		47.203	72.192	69.425	1.00 37.69	
ATOM	9455	N	LYS	C 330		46.727	72.554	68.360	1.00 38.18	
ATOM	9457	CA		C 331 C 331		48.196	71.315	69.475	1.00 37.13	
ATOM	9459	CB		C 331	•	48.858 49.680	70.907	68.239	1.00 37.33	
ATOM	9462	CG		C 331		50.896	69.630 69.819	68.419	1.00 37.85	
ATOM	9465	CD		C 331		51.977	68.724	69.341 69.159	1.00 40.26	
MOTA	9468	CE	LYS (C 331		53.197	69.011	70.047	1.00 41.77 1.00 42.34	
MOTA	9471	NZ	LYS (C 331		54.455	68.791	69.293	1.00 42.34	
ATOM	9475	С	LYS (C 331		47.855	70.704	67.115	1.00 36.47	
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ATOM	9476	0	LYS (С	331	47.883	71.427	66.110	1.00 37.10			0
ATOM	9477	N	ASP (46.949	69.745	67.299	1.00 35.03		:	N
ATOM	9479	CA	ASP	С	332	45.984	69.368	66.254	1.00 33.52			С
MOTA	9481	CB	ASP	С	332	45.735	67.856	66.326	1.00 33.42			С
ATOM	9484	CG	ASP	С	332	46.732	67.060	65.491	1.00 34.07			С
ATOM	9485	OD1	ASP	С	332	47.472	67.662	64.683	1.00 34.43			0
ATOM	9486		ASP			46.839	65.818	65.570	1.00 34.73			0
MOTA	9487	С	ASP	С	332	44.637	70.143	66.278	1.00 32.00			С
ATOM	9488		ASP			43.746	69.892	65.450	1.00 31.91			0
ATOM	9489	N	PHE			44.494	71.074	67.220	1.00 29.78			N
ATOM	9491	CA	PHE			43.245	71.783	67.422	1.00 28.34			С
ATOM	9493		PHE			42.837	71.697	68.901	1.00 28.83			С
ATOM	9496	CG	PHE			42.336	70.323	69.334	1.00 30.95			C
ATOM	9497		PHE			43.156	69.199	69.239	1.00 33.57			С
MOTA	9499		PHE			42.697	67.944	69.626	1.00 34.89			C
ATOM	9501	CZ	PHE			41.402	67.795	70.120	1.00 34.94			C
ATOM	9503		PHE			40.583	68.899	70.229	1.00 33.86			С
ATOM	9505		PHE			41.049	70.160	69.847	1.00 32.43			С
ATOM	9507	C	PHE			43.442	73.230	66.975	1.00 26.25			С
ATOM	9508	Ō	PHE			43.950	74.058	67.737	1.00 26.49			0
ATOM	9509	N	THR			43.075	73.530	65.731	1.00 23.74			N
ATOM	9511	CA	THR			43.211	74.886	65.189	1.00 22.15			С
ATOM	9513	CB	THR			44.198	74.916	64.022	1.00 22.27			С
MOTA	9515		THR			43.789	73.981	63.020	1.00 21.35			0
ATOM	9517		THR			45.565	74.443	64.465	1.00 22.71			С
ATOM	9521	С	THR			41.886	75.436	64.726	1.00 20.28			С
MOTA	9522	0	THR			41.008	74.690	64.383	1.00 19.63			0
ATOM	9523	N	TYR	С	335	41.756	76.747	64.698	1.00 18.82			N
ATOM	9525	CA			335	40.469	77.370	64.438	1.00 18.55			С
ATOM	9527	CB			335	39.742	77.682	65.767	1.00 18.56			С
ATOM	9530	CG			335	39.672	76.472	66.671	1.00 17.82	•		C
ATOM	9531	CD1	TYR			40.650	76.239	67.630	1.00 16.61			С
ATOM	9533		TYR			40.623	75.103	68.408	1.00 17.81			0 C
MOTA	9535	CZ			335	39.599	74.180	68.254	1.00 18.25			С
ATOM	9536	OH	TYR	С	335	39.563	73.050	69.046	1.00 20.01			0
ATOM	9538	CE2	TYR	С	335	38.617	74.395	67.315	1.00 17.94			С
ATOM	9540	CD2	TYR	С	335	38.663	75.536	66.524	1.00 17.44			С
MOTA	9542	С	TYR	С	335	40.662	78.638	63.589	1.00 18.47			C
ATOM	9543	0	TYR	С	335	41.312	79.595	64.018	1.00 17.98			0
ATOM	9544	N	SER	С	336	40.128	78.605	62.367	1.00 18.11			N
ATOM	9546	CA			336	40.004	79.782	61.510	1.00 17.60			C
ATOM	9548	CB			336	39.716		60.101	1.00 17.17			C
ATOM	9551	OG	SER	С	336	38.417		60.047	1.00 15.50			0
ATOM	9553	С			336	38.858		61.946				С
ATOM	9554	0			336	38.074	80.379	62.836	1.00 16.89			0
ATOM	9555	N			337	38.754	81.862	61.287	1.00 18.32			N
ATOM	9557	CA			337	37.671	82.797	61.567	1.00 18.74			C
ATOM	9559	CB			337	.37.830		60.797	1.00 18.47			C
ATOM	9562	CG			337	38.992		61.264	1.00 18.53			C
ATOM	9565	CD			337	38.728		61.031	1.00 19.47			C
ATOM	9568	CE			337	38.523		59.561	1.00 19.94			C
ATOM	9571	NZ			337	38.656		59.301				N
MOTA	9575	С			337	36.357		61.216				C
MOTA	9576	0			337	35.384		61.955				0
MOTA	9577	N	ASP	С	338	36.338		60.096				N
ATOM	9579	CA	ASP	C	338	35.166		59.694				C
ATOM	9581	CB			338	35.441		58.417				C
MOTA	9584	CG			338	35.236		57.153				C
MOTA	9585	OD1	ASP	C	338	34.782		57.239				0
MOTA	9586		ASP			35.506		56.024				0
MOTA	9587	С	ASP	C	338	34.737	79.721	60.793	1.00 20.84			С
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ATOM	·9588	0	A C D	~	338		22 544	70 506		•
ATOM	9589						33.544	79.586	61.030	1.00 21.08
		N	ASP				35.707	79.097	61.461	1.00 20.65
ATOM	9591.	CA			339		. 35.430	78.135	62.535	1.00 20.49
ATOM	9593	CB			339		36.723	77.485	63.041	1.00 19.99
ATOM	9596	CG	ASP		339	•	37.270	76.474	62.079	1.00 18.52
ATOM	9597	OD1	ASP	С	339		36.475	75.796	61.393	1.00 15.97
ATOM	9598	OD2			339		38.486	76.284	61.943	
ATOM	9599	C			339		34.693	78.768	63.692	
ATOM	9600	ō	ASP		339	•	33.751	78.203		1.00 20.76
ATOM	9601	N	PHE		340				64.230	1.00 20.00
ATOM	9603	CA					35.125	79.962	64.054	1.00 21.96
ATOM			PHE	C			34.440	80.719	65.076	1.00 22.95
	9605	CB	PHE		340		35.176	82.005	65.421	1.00 23.07
ATOM	9608	, CG	PHE		340		36.399	81.828	66.277	1.00 22.95
ATOM	9609	CD1		C	340		37.463	81.066	65.866	1.00 22.51
ATOM	9611	CE1			340		38.588	80.952	66.633	1.00 22.57
ATOM	9613	CZ	PHE		340		38.682	81.605	67.807	1.00 23.78
ATOM	9615	CE2		С	340		37.643	82.391	68.233	1.00 25.28
MOTA	9617	CD2	PHE	C	340		36.512	82.509	67.463	1.00 24.52
ATOM (9619	С	PHE	С	340		33.045	81.064		1.00 23.67
ATOM	9620	0	PHE	С	340		32.085	80.943	65.309	1.00 23.60
ATOM .	9621	N	HIS	С	341		32.926	81.492	63.317	1.00 24.91
ATOM	9623	CA	HIS		341		31.612	81.819	62.786	1.00 26.47
ATOM	9625	СВ	HIS		341		31.638	82.334	61.337	1.00 26.86
ATOM	9628	CG	HIS		341		30.262	82.414	60.746	1.00 20.00
ATOM	9629		HIS		341		29.302	83.287	61.224	
MOTA	9631		HIS		341		28.168	83.091	60.568	
ATOM	9633		HIS		341		28.347	82.102	59.702	1.00 36.37
ATOM	9635		HIS		341		29.643	81.651		1.00 36.36
ATOM	9637	C	HIS				30.619		59.805	1.00 34.80
ATOM	9638	0	HIS		341		29.454	80.641	62.894	1.00 26.47
ATOM	9639	N	ARG		342			80.848	63.254	1.00 26.40
ATOM	9641	CA	ARG				31.084	79.429	62.605	1.00 26.78
ATOM	9643	CB					30.240	78.241	62.639	1.00 27.49
ATOM	9646	CG	ARG				30.930	77.068	61.967	1.00 27.93
ATOM	9649		ARG		342		31.042	77.195	60.478	1.00 29.90
		CD	ARG				32.392	76.757	59.973	1.00 33.11
MOTA	9652	NE	ARG				32.473	76.765	58.516	1.00 35.74
ATOM	9654	CZ	ARG	C	342		33.545	76.392	57.827	1.00 37.80
ATOM	9655		ARG				34.653	75.981	58.453	1.00 37.69
ATOM	9658		ARG				33.509	76.426	56.499	1.00 39.32
ATOM	9661	C	ARG				29.887	77.821	64.043	1.00 27.39
ATOM	9662	0	ARG				28.925	77.116	64.239	1.00 28.16
MOTA	9663	N	ALA		343		30.688	78.225	65.013	1.00 27.43
MOTA	9665	CA	ALA				30.359	78.051	66.416	1.00 27.24
MOTA	9667	CB	ALA				31.608	78.221	67.263	1.00 27.10
ATOM	9671	С	ALA				29.286	79.029	66.882	1.00 27.37
ATOM	9672	0	ALA				28.997	79.068	68.078	1.00 27.62
ATOM	9673	N	GLY				28.704	79.802	65.951	1.00 27.38
MOTA	9675	CA	GLY	С	344		27.653	80.784	66.234	1.00 27.23
MOTA	9678	С	GLY	С	344		28.108	82.172	66.731	1.00 26.99
ATOM	9679	0	GLY	С	344		27.284	82.969	67.222	1.00 26.63
ATOM	9680	N	LEU				29.401	82.470	66.611	1.00 26.29
MOTA	9682	CA	LEU				29.920	83.761	67.043	1.00 26.05
ATOM	9684	CB	LEU				31.392	83.660	67.508	1.00 26.03
ATOM	9687	CG	LEU				31.793	82.508	68.452	
ATOM	9689		LEU				32.888	82.915	69.392	1.00 27.03
ATOM	9693		LEU				30.637	82.014		1.00 27.83
ATOM	9697	C	LEU				29.740	84.821	69.280	1.00 29.12
ATOM	9698	ō	LEU				29.797	84.531	65.945	1.00 25.74
ATOM	9699		GLN				29.483	86.043	64.753	1.00 24.32
ATOM	9701		GLN				29.309	87.257	66.412	1.00 26.61
ATOM	9703	CB	GLN				28.979	88.441	65.615	1.00 27.29
				_	340		20.919	OO.44T	66.520	1.00 27.75
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ATOM	9706	CG GLN C 346					
ATOM	9709		27.667	88.453	67.274	1.00 30.06	
ATOM	9710		27.621	89.629	68.287	1.00 32.70	
			26.604	90.312	68.389	1.00 36.00	
MOTA	9711		28.725	89.863	69.011	1.00 30.49	
MOTA	9714		30.599	87.679	64.955	1.00 27.40	
ATOM	9715		31.678	87.520	65.522	1.00 28.47	
MOTA	9716	N VAL C 347	30.494	88.319	63.809	1.00 26.94	
MOTA	9718	CA VAL C 347	31.661	88.882	63.154		
ATOM	9720		31.260	89.348		1.00 26.52	
MOTA	9722		30.781	00.010	61.746	1.00 26.83	
ATOM	9726			90.818	61.735	1.00 27.09	
ATOM	9730	C VAL C 347	32.382	89.108	60.821	1:00 27.86	
ATOM	9731		32.316	90.021	63.968	1.00 25.70	
ATOM			33.523	90.192	63.948	1.00 24.79	
	9732		31.500	90.766	64.707	1.00 25.23	
ATOM	9734	CA GLU C 348	31.941	91.910	65.508	1.00 25.25	
ATOM	9736		30.718	92.610	66.148	1.00 26.27	
MOTA	9739	CG GLU C 348	29.820	93.435	65.231	1.00 29.33	
MOTA	9742	CD GLU C 348	28.795	92.623	64.439	1.00 34.78	
ATOM	9743	OE1 GLU C 348	28.748	91.364	64.556	1.00 35.05	
MOTA	9744	OE2 GLU C 348	28.022	93.274	63.665	1.00 35.05	
MOTA	9745	C GLU C 348	32.873	91.503	66.655		
ATOM	9746	O GLU C 348	33.499	92.355		1.00 23.99	
ATOM	9747	N PHE C 349	32.880		67.279	1.00 23.59	
MOTA	9749	CA PHE C 349	22.000	90.212	66.989	1.00 22.63	
ATOM	9751	CB PHE C 349	33.822	89.626	67.948	1.00 21.44	
ATOM	9754	CG PHE C 349	33.093	88.619	68.816	1.00 21.89	
ATOM			33.898	88.062	69.936	1.00 22.89	
	9755	CD1 PHE C 349	34.514	88.893	70.847	1.00 25.73	
ATOM	9757	CE1 PHE C 349	35.239	88.354	71.906	1.00 27.78	
ATOM	9759	CZ PHE C 349	35.320	86.979	72.058	1.00 26.52	
MOTA	9761	CE2 PHE C 349	34.697	86.156	71.156	1.00 25.03	
MOTA	9763	CD2 PHE C 349	33.995	86.692	70.105	1.00 23.88	
ATOM	9765	C PHE C 349	34.934	88.910	67.215	1.00 20.23	
ATOM	9766	O PHE C 349	36.089	89.139	67.494	1.00 20.23	
MOTA	9767	N ILE C 350	34.587	88.073	66.244	1.00 19.56	
ATOM	9769	CA ILE C 350	35.588	87.275		1.00 18.88	
ATOM	9771	CB ILE C 350	34.919	86.374	65.555	1.00 18.34	
ATOM	9773	CG1 ILE C 350	34.053		64.501	1.00 18.48	
MOTA	9776	CD1 ILE C 350	32.929	85.320	65.180	1.00 19.15	
ATOM	9780	CG2 ILE C 350		84.839	64.286	1.00 20.67	
ATOM	9784	C ILE C 350	35.956	85.654	63.625	1.00 18.23	
ATOM	9785	O ILE C 350	36.697	88.127	64.918	1.00 18.02	
ATOM	9786		37.894	87.805	65.066	1.00 17.63	
ATOM	9788	N ASN C 351	36.313	89.203	64.216	1.00 17.31	
ATOM		CA ASN C 351	37.284	89.993	63.470	1.00 16.76	
	9790	CB ASN C 351	36.634	90.970	62.471	1.00 16.58	
ATOM	9793	CG ASN C 351	36.193	90.299		1.00 15.21	
ATOM	9794	OD1 ASN C 351	36.680	89.250	60.774	1.00 16.64	
MOTA	9795	ND2 ASN C 351	35.265	90.923	60.478	1.00 12.76	
MOTA	9798	C ASN C 351	38.251	90.703	64.415	1.00 17.01	
ATOM	9799	O ASN C 351	39.428	90.591	64.211	1.00 17.01	
ATOM	9800	N PRO C 352	37.796	91.423	65.431	1.00 17.64	
MOTA	9801	CA PRO C 352	38.701			1.00 17.04	
ATOM	9803	CB PRO C 352	37.734	92.051 92.660	66.390	1.00 17.25	
ATOM	9806	CG PRO C 352			67.386	1.00 17.51	
ATOM	9809	CD PRO C 352	36.576	93.055	66.525	1.00 17.29	
MOTA	9812	C PRO C 352	36.403	91.832	65.684	1.00 17.74	
ATOM	9813		39.662	91.131	67.120	1.00 17.55	
MOTA	9814	O PRO C 352	40.735	91.557	67.538	1.00 17.30	
ATOM		N ILE C 353	39.280	89.878	67.285	1.00 17.86	
	9816	CA ILE C 353	40.121	88.908	67.973	1.00 18.08	
ATOM	9818	CB ILE C 353	39.344	87.642	68.260	1.00 18.73	
ATOM	9820	CG1 ILE C 353	38.612	87.745	69.557	1.00 19.43	
_ATOM	9823	CD1 ILE C 353	37.650	86.617	69.621	1.00 22.63	

ATOM	9827	CG2	ILE	~	353	40.238	06 413	60 204	1 00			_
ATOM	9831	C	ILE		353	41.223	86.413	68.304		21.14		С
ATOM	9832						88.565	67.044		17.44		С
		0	ILE			42.370	88.413	67.466		17.27		0
ATOM	9833	N	PHE			40.863	88.377	65.775		17.04		N
ATOM	9835	CA			354	41.870	88.096	64.776		16.79		С
ATOM	9837	CB	PHE			41.295	87.430	63.524		16.89		С
ATOM	9840	CG	PHE			41.106	85.940	63.679	.1.00	16.68		С
ATOM	9841		PHE		354	40.077	85.443	64.458	1.00	16.83		С
ATOM	9843	CE1	PHE	С	354	39.918	84.087	64.633	1.00	16.11		С
ATOM	9845	CZ	PHE		354	40.796	83.218	64.047	1.00	15.19		С
MOTA	9847	CE2	PHE	С	354	41.834	83.694	63.291	1.00	14.88		С
ATOM	9849	CD2	PHE	С	354	41.987	85.045	63.107		15.98		Ċ
ATOM	9851	С			354	42.707	89.330	64.487		16.83		Ċ
ATOM	9852	0	PHE	С	354	43.882	89.151	64.281		16.91		ŏ
ATOM	9853	N			355	42.181	90.564	64.572		17.05		N
MOTA	9855	CA			355	43.042	91.758	64.341		18.14		C
ATOM	9857	CB			355	42.309	93.115	64.163		18.96		č
ATOM	9860	CG			355	40.898	92.929	63.605		24.73	•	č
ATOM	9863	CD	GLU		355	40.007		63.479		30.19		Č
ATOM	9864		GLU			38.932	94.030	62.795		29.35		Ö.
ATOM	9865	OE2	GLU		355	40.334	95.245	64.099		32.39		ŏ
ATOM	9866	C	GLU		355	44.081	91.842	65.437		17.35		C
ATOM	9867	ŏ			355	45.256	91.877	65.147		17.04		
ATOM	9868	N			356	43.641	91.846	66.684		17.04		0
ATOM	9870	CA	PHE		356	44.525	91.801	67.843				N
ATOM	9872	CB			356	43.693	91.488			16.82		C
ATOM	9875	CG				44.468		69.083		17.28		C
ATOM	9876		PHE		356		91.485	70.374		16.78		C
ATOM	9878		PHE		356	44.878	92.672	70.945		16.87		C
ATOM	9880	CZ	PHE			45.563	92.700	72.131		17.87		C
					356	45.829	91.535	72.793		17.65		C
ATOM	9882		PHE		356	45.414	90.332	72.251		18.63		CCC
ATOM	9884		PHE			44.719	90.308	71.043		17.21		С
ATOM	9886	C			356	45.573	90.722	67.714		17.34		С
ATOM	9887	0	PHE		356	46.736	90.927	68.092		17.16		0
ATOM	9888		SER			45.174	89.556	67.203		17.18		N
ATOM	9890	CA	SER		357	46.108	88.439	67.136		17.38		С
ATOM	9892	CB			357	45.381	87.133	66.813		17.76		С
ATOM	9895	OG			357	44.418	86.873	67.825		18.50		0
ATOM	9897	C			357	47.236	88.737	66.152		16.38		С
ATOM	9898	0			357	48.396	88.587	66.474		15.52		0
ATOM	9899	N			358	46.857	89.200	64.978		16.04		N
ATOM	9901	CA	ARG		358	47.785	89.681	63.961		16.53		С
ATOM	9903	СВ			358	46.990	90.176	62.736		16.22		С
ATOM	9906	CG	ARG			46.325	89.101	61.928		14.87		C
ATOM	9909	CD	ARG			45.937	89.541	60.556		13.61		С
ATOM	9912	NE			358	44.956	90.614	60.583	1.00	12.04		N
ATOM	9914	CZ			358	43.667	90.450	60.802		11.62		С
	9915		ARG			43.133	89.263	61.004		11.73		N
ATOM	9918		ARG				91.500	60.809	1.00	13.12		N
MOTA	9921	C			358	48.709	90.832	64.418	1.00	16.96		С
ATOM	9922	0			358	49.835	90.921	63.974		16.47		0
ATOM	9923	N			359	48.188	91.723	65.256	1.00	17.76		N
ATOM .	9925	CA			359	48.885	92.902	65.732	1.00	18.41		С
ATOM	9927	CB			359	47.897	93.908	66.291		18.54		С
MOTA	9931	Ċ			359	49.861	92.495	66.803		19.75		· Č
MOTA	9932	0			359	51.016	92.878	66.741		20.24		ō
ATOM	9933	N			360	49.414	91.722	67.796		20.82		N
ATOM	9935	CA			360	50.349	91.113	68.733		21.74		C
MOTA	9937	CB			360	49.652	90.151	69.684		21.72		C
MOTA	9940	CG			360	48.761	90.800	70.719		22.69		Č
MOTA	9943	SD	MET	С	360	49.549	91.976	71.785		21.63		s
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ATOM	9944		MET			50.525	90.934	72.758	1.00 23.43	C
ATOM	9948		MET		360	51.503	90.375	68.024	1.00 22.40	C
MOTA	9949	0	MET		360	52.625 51.250	90.480 89.631	68.456 66.958	1.00 22.90 1.00 23.53	O N
ATOM	9950	N	ARG ARG		361	52.334	88.893	66.281	1.00 24.93	C
MOTA	9952	CA	ARG		361	51.782	88.118	65.070	1.00 25.30	č
ATOM	9954	CB CG	ARG			52.811	87.720	64.015	1.00 23.30	č
ATOM ATOM	9957 9960	CD	ARG			52.259	87.610	62.597	1.00 30.11	č
ATOM	9963	NE	ARG		361	53.023	86.632	61.823	1.00 32.45	Ŋ
ATOM	9965	CZ	ARG		361	53.432	86.776	60.556	1.00 35.21	Ċ
ATOM	9966		ARG			53.171	87.887	59.847	1.00 35.66	N
MOTA	9969		ARG			54.118	85.778	59.985	1.00 35.46	N
ATOM	9972	С	ARG			53.459	89.842	65.846	1.00 25.31	С
ATOM	9973	Ō	ARG			54.644	89.539	65.988	1.00 24.75	0
MOTA	9974	N	ARG	С	362	53.021	90.985	65.315	1.00 26.30	N
MOTA	9976	CA	ARG	С	362	53.817	92.131	64.879	1.00 26.81	C
ATOM	9978	CB	ARG	С	362	52.835	93.250	64.461	1.00 27.31	C
MOTA	9981	CG			362	53.313	94.320	63.491	1.00 29.92	. c
MOTA	9984	CD	ARG		362	52.162	95.097	62.825	1.00 31.82	C
MOTA	9987	NE			362	51.356	94.189	62.005	1.00 32.00	N
MOTA	9989	CZ			362	50.031	94.021	62.092	1.00 33.06	C
ATOM	9990		ARG			49.277	94.722	62.947	1.00 31.56	N
MOTA	9993		ARG			49.446	93.131	61.293	1.00 34.15	N C
MOTA	9996	C			362	54.720	92.635	65.999 65.775	1.00 26.45 1.00 26.56	Ö
ATOM	9997	0	ARG			55.840 54.221	93.010 92.679	67.212	1.00 26.30	N
MOTA	9998	N			363	55.085	93.001	68.330	1.00 26.40	C
MOTA	10000 10002	CA CB	LEU		363 363	54.244	93.218	69.584	1.00 26.96	č
MOTA MOTA	10002	CG			363	53.737	94.633	69.743	1.00 28.33	Č
ATOM	10003		LEU			52.958	94.712	71.029	1.00 28.19	č
ATOM	10011		LEU			54.916	95.635	69.719	1.00 29.47	Ċ
ATOM	10015	C	LEU			56.171	91.946	68.615	1.00 26.28	C
ATOM	10016	ŏ	LEU			57.261	92.298	69.013	1.00 25.96	0
ATOM	10017	N			364	55.855	90.663	68.465	1.00 26.11	N
MOTA	10019	CA	GLY	С	364	56.816	89.605	68.701	1.00 26.12	С
MOTA	10022	С	GLY	С	364	57.326	89.551	70.130	1.00 26.28	С
MOTA	10023	0			364	58.530	89.636	70.369	1.00 26.55	0
MOTA	10024	N			365	56.419	89.412	71.090	1.00 26.35	Ŋ
MOTA	10026	CA	LEU			56.828	89.262	72.474	1.00 26.62	C
ATOM	10028	СВ			365	55.649	89.451	73.420	1.00 26.84	C
MOTA	10031	CG			365	54.705	90.642	73.256	1.00 28.48	C
MOTA	10033		LEU			53.735	90.730	74.471	1.00 29.09 1.00 29.85	C
ATOM	10037				365	55.479 57.441	91.922	73.108	1.00 29.85	C
MOTA MOTA	10041 10042	C O			365 365	56.984	87.880 86.880	72.699 72.121	1.00 20.30	Ö
ATOM	10042	N			366	58.484	87.833	73.522	1.00 25.82	N
MOTA	10045	CA			366	59.014	86.572	74.008	1.00 25.54	Ċ
ATOM	10047	CB			366	60.530	86.662	74.223	1.00 25.31	Č
ATOM	10050	CG	ASP			60.932	87.699	75.278	1.00 25.54	C
MOTA	10051				366	60.092	88.049	76.140	1.00 27.00	0
ATOM	10052	OD2	ASP	C	366	62.074	88.213	75.336	1.00 23.90	0
MOTA	10053	С	ASP	C	366	58.266	86.177	75.305	1.00 25.67	С
MOTA	10054	0			366	57.461	86.968	75.843	1.00 25.93	0
ATOM	10055	N			367	58.536	84.955	75.781	1.00 25.06	N
MOTA	10057	CA			367	57.934	84.386	77.001	1.00 24.68	C
MOTA	10059	CB			367	58.724	83.136	77.423	1.00 25.13	C
MOTA	10062	CG			367	58.631	81.996	76.418	1.00 26.28	C
MOTA	10063				367	57.765	82.047	75.514	1.00 25.81	0
ATOM	10064				367	59.406		76.474	1.00 28.52	0
MOTA	10065	C			367 367	57.883 56.903		78.229 79.024	1.00 24.10 1.00 22.49	С 0
MOTA	10066		ADF		. 367		05.500	77.024	1.00 22.33	O

ATOM	10067	N	ALA C	368		58.984	86.075	78.387	1 00	00 55	
ATOM	10069	CA	ALA C							23.55	
						59.213	86.954	79.536	1.00	22.91	
MOTA	10071	CB	ALA C			60.619	87.492	79.502	1.00	23.06	
ATOM	10075	С	ALA C	368		58.231	88.094	79.517	1 00	22.31	
ATOM	10076	0	ALA C			57.646	88.446	80.546			
ATOM	10077									22.06	
		N	GLU C			58.051	88.643	78.316	1.00	21.69	
MOTA	10079	CA	GLU C			57.169	89.791	78.096	1.00	20.97	
MOTA	10081	CB	·GLU C	.369		57.463	90.435	76.731		20.89	
ATOM	10084	CG	GLU C			58.738	91.284	76.722			
ATOM	10087	CD	GLU C			50.730				18.99	
						59.372	91.484	75.342		17.52	
ATOM	_		GLU C			60.058	·92.511	75.180	1.00	16.47	
MOTA	10089	OE2	GLU C			59.221	90.641	74.421		16.36	
ATOM	10090	С	GLU C	369		55.698	89.409	78.238		20.50	
MOTA	10091	0	GLU C			54.925	90.171	78.803			
ATOM	10092	N	TYR C							20.24	
						55.320	88.232	77.760		19.94	
ATOM	10094	CA	TYR C			53.942	87.832	77.870	1.00	20.41	
ATOM	10096	CB	TYR C	370		53.689	86.539	77.102	1.00	20.54	
MOTA	10099	CG	TYR C	370		53.051	86.728	75.727		22.11	
ATOM	10100	CD1	TYR C			53.750	86.401	74.574			•
ATOM	10102	CE1	TYR C							23.49	
						53.197	86.553	73.337		23.37	
ATOM	10104	CZ	TYR C			51.936	87.044	73.198	1.00	23.38	
MOTA	10105	OH	TYR C	370		51.445	87.167	71.918		25.78	
ATOM	10107	CE2	TYR C	370		51.198	87.377	74.308		23.16	
MOTA	10109	CD2	TYR C			51.758	87.211	75.578			
ATOM	10111	C	TYR C						1.00		
						53.567	87.675	79.349	1.00		
MOTA	10112	0	TYR C			52.550	88.157	79.804	1.00	20.68	
MOTA	10113	N	ALA C			54.424	87.028	80.115	1.00	21.01	
ATOM	10115	CA	ALA C	371		54.104	86.692	81.498	1.00		
ATOM	10117	CB	ALA C	371		55.123	85.737	82.021	1.00	21 00	
MOTA	10121	C.	ALA C			54.044					
ATOM	10122						87.915	82.379	1.00	20.62	
		0		371.		53.217	88.003	83.295	1.00		٠
ATOM	. 10123	N	LEU C			54.937	88.851	82.080	1.00	20.82	
MOTA	10125	CA	LEU C	372		54.943	90.156	82.734	1.00		
ATOM	10127	CB	LEU C	372		56.238	90.934	82.400		21.20	
ATOM	10130	CG	LEU C			57.489					
ATOM	10132	CD1	LEU C			57.409	90.444	83.168		21.11	
						58.749	91.065	82.616	1.00		
ATOM	10136		LEU C			57.347	90.751	84.655	1.00	20.82	
ATOM	10140	С	LEU C		•	53.693	90.993	82.402	1.00	21.30	
ATOM	10141	0	LEU C	372		53.125	91.653	83.290	1.00	21 12	
ATOM	10142	N	LEU C	373		53.262	90.965	81.144		21.20	
ATOM	10144	CA	LEU C			52.045	91.684				
ATOM	10146	CB						80.741		21.46	
			LEU C			51.852	91.625	79.227		22.26	
MOTA	10149	CG	TEO C			51.785	92.881	78.364	1.00	23.82	
ATOM	10151	CD1				51.079	92.498	77.110	1.00	26.07	
ATOM	10155	CD2	LEU C	373		51.069	94.022	79.018	1.00		
ATOM	10159	С	LEU C			50.810	91.068	81.405	1.00	20.10	
ATOM	10160	Ö	LEU C			49.889			1.00	20.82	
MOTA	10161						91.782	81.801	1.00		
		N	ILE C			50.804	89.741	81.538	1.00		
MOTA	10163	CA	ILE C			49.712	89.038	82.215	1.00	19.83	
ATOM	10165	CB	ILE C	374		49.837	87.504	82.026	1.00		
ATOM	10167	CG1	ILE C			49.609	87.124	80.570	1.00		
ATOM	10170	CD1	ILE C			50.070	85.805	80.239			
ATOM	10174		ILE C						1.00		
						48.820	86.773	82.904	1.00		
ATOM	10178	C	ILE C			49.641	89.416	83.704	1.00		
MOTA	10179	0	ILE C			48.561	89.638	84.248	1.00		
ATOM	10180	N	ALA C	375		50.800	89.498	84.342	1.00		
ATOM	10182	CA	ALA C			50.885	89.850	85.749	1.00		
ATOM	10184	CB	ALA C			52.297					
ATOM	10188	C					89.660	86.256	1.00		
			ALA C			50.462	91.287	85.940	1.00		
MOTA	10189	0	ALA C			49.738	91.621	86.880	1.00	21.55	
MOTA	10190	N	ILE C	376		50.914	92.155	85.054	1.00		
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MOTA	10192	CA	ILE (С	376	50.487	93.540	85.147	1.00 21.75	С
MOTA	10194	CB	ILE (С	376	51.120	94.397	84.049	1.00 22.02	С
MOTA	10196	CG1	ILE (52.633	94.584	84.325	1.00 22.83	C
MOTA	10199		ILE (376	53.499	95.020	83.102	1.00 22.97	С
MOTA	10203	CG2	ILE			50.356	95.720	83.927	1.00 21.74	С
MOTA	10207	С	ILE .			48.977	93.573	85.021	1.00 22.03	С
MOTA	10208	0	ILE			48.306	94.274	85.780	1.00 22.24	0
MOTA	10209	N	ASN			48.462	92.805	84.053	1.00 22.18	N
MOTA	10211	CA	ASN			47.049	92.807	83.717	1.00 22.16	C
MOTA	10213	CB	ASN		377	46.792	91.894	82.512	1.00 22.34	C
MOTA	10216	CG	ASN			45.340	91.928	82.053	1.00 23.24	Ç
MOTA	10217		ASN			44.487	91.235	82.624	1.00 25.25	0
MOTA	10218		ASN		377	45.048	92.740	81.042	1.00 21.97	N
MOTA	10221	С	ASN			46.193	92.391	84.924	1.00 21.96	C
MOTA	10222	0	ASN			45.222	93.060	85.282	1.00 21.34	0
MOTA	10223	N	ILE		378	46.581	91.282	85.551	1.00 22.24	N
MOTA	10225	CA	ILE			45.945	90.795	86.806	1.00 21.86	C
ATOM	10227	СВ	ILE			46.760	89.582	87.339	1.00 21.27	C
ATOM	10229		ILE			46.488	88.360	86.454	1.00 20.50	C
ATOM	10232	CD1	ILE			47.527	87.185	86.593	1.00 21.01	C C
ATOM	10236	CG2	ILE			46.412	89.292	88.780	1.00 21.94	C
ATOM	10240	C	ILE			45.770	91.897	87.897	1.00 21.49 1.00 19.66	C 0
ATOM	10241	0	ILE			44.687	92.096	88.433	1.00 19.66	N
ATOM	10242	N	PHE			46.860	92.611	88.162 89.217	1.00 22.23	
MOTA	10244	CA	PHE			46.946	93.623 93.663	89.813	1.00 22.96	C
MOTA	10246	CB	PHE PHE			48.369 48.767	92.406	90.526	1.00 22.00	C
MOTA	10249 10250	CG	PHE		379	49.961	91.762	90.210	1.00 22.91	č
ATOM ATOM	10250		PHE			50.334	90.610	90.874	1.00 21.01	Č
ATOM	10252	CZ	PHE		379	49.506	90.010	91.868	1.00 21.68	č
ATOM	10254		PHE			48.324	90.701	92.207	1.00 21.90	Č
MOTA	10258		PHE			47.953	91.864	91.533	1.00 24.00	C C
ATOM	10260	C	PHE		379	46.527	95.021	88.751	1.00 23.26	č
ATOM	10261	ŏ			379	47.210	95.997	88.972	1.00 22.51	ō
ATOM	10262	N			380	45.364	95.107	88.137	1.00 24.39	N
ATOM	10264	CA	SER		380	44.842	96.390	87.709	1.00 25.22	С
ATOM	10266	CB			380	44.295	96.277	86.279	1.00 25.20	C
ATOM	10269	OG			380	45.187	95.547	85.453	1.00 23.22	0
MOTA	10271	С	SER	C	380	43.799	96.848	88.742	1.00 25.91	С
ATOM	10272	0			380	42.695	96.299	88.849	1.00 24.92	0
MOTA	10273	N	ALA	С	381	44.185	97.873	89.497	1.00 27.23	N
ATOM	10275	CA	ALA	С	381	43.428	98.348	90.671	1.00 28.01	С
ATOM	10277	СВ	ALA	С	381	44.244	99.402	91.448	1.00 27.35	С
MOTA	10281	C			381	42.017	98.888	90.350	1.00 28.78	С
MOTA	10282	0			381	41.168	98.986	91.254	1.00 29.19	0
MOTA	10283	N			382	41.776		89.077	1.00 29.16	N
MOTA	10285	CA			382	40.508		88.639	1.00 29.25	C
MOTA	10287	CB			382		100.771	87.516	1.00 29.43	C
MOTA	10290	CG			382	41.288		86.275	1.00 31.79	C
MOTA	10291		ASP			41.958		86.392	1.00 30.62	0
MOTA	10292		ASP				100.543	85.138	1.00 35.14	0
ATOM	10293	C			382	39.430		88.170	1.00 28.95	C
ATOM	10294	0			382	38.468		87.501	1.00 28.93	0
MOTA	10295	N			383	39.564		88.525	1.00 28.77 1.00 28.43	N C
ATOM	10297	CA CB			383 383	38.525 39.021		88.169 88.360	1.00 28.43	C
MOTA MOTA	10299 10302	CB			383	40.236		87.593	1.00 26.28	C
ATOM	10302	CD			383	40.236		86.117	1.00 26.37	C
MOTA	10303	NE			383	41.162		85.408	1.00 24.87	Ŋ
ATOM	10310	CZ			383	41.202		84.110	1.00 21.15	C
ATOM	10311		ARG			40.168		83.354	1.00 19.43	N
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ATOM	10314	NH2	ARG	C 38	3	42.283	93.552	83.578	1.00	20.52	
ATOM	10317	С	ARG	C 38	3	37.252	96.827	89.010	1.00		
ATOM	10318	.0	ARG			37.314	97.405	90.078	1.00		
MOTA	10319	N	PRO			36.110	96.366	88.514		28.96	
ATOM	10320	CA	PRO			34.869	96.341	89.284	1.00		
ATOM	10322	CB	PRO			33.891	95.616	88.352		29.56	
ATOM	10325	CG	PRO			34.465	95.725				
ATOM	10328	CD	PRO			35.923		86.996	1.00		
ATOM	10331	C	PRO			34.970	95.836	87.151		29.25	
ATOM	10331		PRO				95.550	90.589		29.67	
ATOM	10332	0				35.455	94.404	90.550		30.34	
		N	ASN			34.516	96.172	91.693		29.15	
ATOM.	10335	CA	ASN			34.335	95.560	93.008		28.59	
ATOM	10337	CB	ASN			33.388	94.351	92.926		28.55	
ATOM	10340	CG	ASN			32.101	94.679		1.00		
ATOM	10341		ASN			31.364	95.552	92.631		30.01	
ATOM	10342		ASN			31.839	94.004	91.098		28.47	
ATOM	10345	C	ASN			35.616	95.178	93.716		28.24	
ATOM	10346	0	ASN			35.589	94.337	94.610		28.84	
ATOM	10347	N	VAL			36.733	95.785	93.331		27.80	
MOTA	10349	CA	VAL			37.980	95.611	94.069	1.00	27.70	
ATOM	10351	CB	VAL			39.226	96.083	93.300		27.91	
MOTA	10353		VAL			40.443	95.981	94.190		28.89	
MOTA	10357		VAL			39.447	95.278	92.003	1.00	28.00	
MOTA	10361		.VAL			37.872	96.449	95.328	1.00	27.72	
MOTA	10362	0	VAL			37.396	97.584	95.304		27.40	
MOTA	10363	N	GLN			38.330	95.875	96.431	1.00	27.89	
MOTA	10365	CA	GLN			38.069	96.393	97.763		27.47	
MOTA	10367	CB	GLN	C 38	37	37.478	95.290	98.628	1.00	27.46	
ATOM	10370	CG	GLN	C 38	37	36.271	94.618	98.004	1.00	29.01	
MOTA	10373	CD	GLN	C 38	3∙7	35.066	94.649	98.896	1.00	31.95	
MOTA	10374		GLN			34.297	95.612	98.873		34.44	
MOTA	10375	NE2	GLN	C 38	37	34.891	93.599	99.695		32.89	
ATOM	10378	С	GLN	C 38	37	39.330	96.927	98.396		27.04	
MOTA	10379	0	GLN			39.263	97.511	99.459		27.19	
MOTA	10380	N	GLU			40.480	96.737	97.751		26.75	
ATOM	10382	CA	GLU	C 38	38	41.737	97.323	98.223		26.26	
ATOM	10384	CB	GLU			42.506	96.319	99.077		26.27	
ATOM	10387	CG	GLU	C 38	38	41.810	95.953			25.93	
ATOM	10390	CD	GLU			42.769	95.473			26.32	
ATOM	10391	OE1	GLU	C 38	38	43.187	94.301			23.97	
MOTA	10392	OE2	GLU	C 38	38	43.087		102.373		29.05	
ATOM	10393	С	GLU	C 38	38	42.595	97.784	97.043		25.86	
MOTA	10394	0	GLU	C 38	38	43.712	97.281	96.851		25.49	
MOTA	10395	N	PRO	C 38	39	42.083		96.271		25.44	
MOTA	10396	CA	PRO	C 38	39	42.768	99.211	95.049		24.67	
ATOM	10398	CB	PRO	C 38	39	41.909	100.380	94.546	1.00	24.61	
MOTA	10401	CG	PRO	C 38	39		100.661	95.599	1.00	24.99	
MOTA	10404	CD	PRO	C 38	39	40.829	99.497	96.521		25.33	
MOTA	10407	С	PRO	C 38	39	44.194	99.649	95.335		24.23	
MOTA	10408	O.	PRO	C 38	39.	45.083	99.271	94.569		23.99	
MOTA	10409	N	GLY	C 39	90		100.414	96.412		23.99	
ATOM	10411	CA	GLY	C 39	90		100.826	96.831		23.80	
MOTA	10414	С	GLY			46.722	99.671	96.832		24.09	
MOTA	10415	0	GLY			47.796	99.753	96.246		23.75	
MOTA	10416	Ŋ	ARG			46.337	98.576	97.478		24.84	
ATOM	10418	CA	ARG			47.178	97.384	97.546		25.72	
ATOM	10420	CB	ARG			46.579	96.341	98.490		26.51	
ATOM	10423	CG		C 3		46.949	96.591	99.959		30.17	
ATOM	10426	CD		C 3		47.538		100.659		34.52	
MOTA	10429	NE		C 3		46.495		100.953		36.68	
ATOM	10431	CZ		C 3		46.659		100.918		39.33	
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ATOM ATOM ATOM ATOM	10432 10435 10438 10439	NH2 C O	ARG C ARG C ARG C ARG C	391 391 391	47.843 45.626 47.426 48.568	92.278 96.753 96.446	100.612 101.197 96.193 95.869	1.00 40.62 1.00 40.10 1.00 25.25 1.00 25.05	и С . О
MOTA	10440		VAL C		46.365	96.555 96.044	95.411 94.045	1.00 24.85 1.00 24.75	N C
ATOM ATOM	10442 10444		VAL C		46.504 45.171	96.105	93.285	1.00 24.73	Ċ
ATOM	10444		VAL C		45.376	95.817	91.806	1.00 23.35	С
ATOM	10450	CG2	VAL C	392	44.176	95.114	93.893	1.00 24.67	С
ATOM	10454		VAL C		47.594	96.800	93.260	1.00 25.28	C
ATOM	10455		VAL C		48.486	96.195	92.641	1.00 25.15	0
ATOM	10456		GLU C		47.527 48.458	98.126 98.997	93.315 92.592	1.00 25.77 1.00 26.33	N ,. C
MOTA MOTA	10458 10460		GLU C		48.068		92.839	1.00 26.81	C
ATOM	10463	CG	GLU C		47.907		91.580	1.00 29.12	С
ATOM	10466	CD	GLU C	393	48.204	102.719	91.801	1.00 32.89	C
ATOM	10467		GLU C		47.824		92.887	1.00 36.07	0
MOTA	10468		GLU C		48.817		90.893	1.00 34.16 1.00 25.88	. O C
ATOM	10469	C	GLU C		49.938 50.835	98.785 98.834		1.00 25.58	0
ATOM ATOM	10470 10471	O N		394	50.182	98.589		1.00 25.36	N
ATOM	10471	CA	ALA C			98.356		1.00 25.26	C
ATOM	10475	СВ	ALA (394	51.568	98.419		1.00 24.81	C
MOTA	10479	С		394	52.046	97.003		1.00 25.40	C
ATOM	10480	0		394	53.207	96.873 96.011		1.00 25.34 1.00 25.29	O N
MOTA	10481	N CA	LEU (C 395 C 395	51.152 51.459	94.696		1.00 25.29	C
MOTA MOTA	10483 10485	CB		395	50.328			1.00 25.30	č
ATOM	10488	CG	LEU		50.153	93.445		1.00 25.72	С
MOTA	10490	CD1		C 395	48.907	92.617		1.00 26.08	0000
MOTA	10494			C 395	51.375	92.737		1.00 26.34	C
ATOM	10498	C	LEU (51.724 52.545	94.739 93.964		1.00 25.03 1.00 25.02	0
ATOM ATOM	10499 10500	O N	GLN (C 395	51.076	95.663		1.00 24.61	N
ATOM	10502	CA		C 396	51.314	95.794		1.00 24.35	С
ATOM	10504	СВ		C 396	50.236	96.645		1.00 24.23	C
MOTA	10507	CG		C 396	50.191	96.544		1.00 22.66	C
MOTA	10510	CD		C 396	49.352 49.496	97.620 98.821		1.00 22.51 1.00 22.04	. C
ATOM ATOM	10511 10512			C 396 C 396	48.466	97.212		1.00 22.04	N
ATOM	10512	C		C 396	52.666	96.407		1.00 24.63	C
ATOM	10516	ŏ		C 396	53.285	96.084		1.00 24.94	0
MOTA	10517	N	GLN	C 397	53.106	97.279		1.00 24.56	N
ATOM	10519	CA		C 397	54.235	98.155		1.00 24.62 1.00 25.20	C
MOTA	10521	CB		C 397	54.475 55 523	99.059 100.154		1.00 25.20	c
MOTA MOTA	10524 10527	CG CD		C 397		101.237		1.00 29.65	č
ATOM	10528	OE1		C 397		101.650		1.00 31.23	0
MOTA	10529	NE2	GLN		54.320			1.00 31.11	N
MOTA	10532	C		C 397	55.510	97.425		1.00 23.90	C
ATOM	10533	0		C 397	56.024 56.018	97.754 96.449		1.00 24.00 1.00 23.14	O N
MOTA MOTA	10534 10535	N CA		C 398 C 398	57.264	95.743		1.00 23.14	C
MOTA	10537	CB		C 398	57.496				Ċ
ATOM	10540	CG		C 398	56.510	95.014	92.630	1.00 22.59	С
MOTA	10543	CD	PRO	C 398	55.483			1.00 22.92	C
MOTA	10546	C		C 398	57.210	95.022			C 0
ATOM	10547	O M		C 398 C 399	58.276 56.006				N
MOTA MOTA	10548 10550	N CA		C 399	55.868				Č
ATOM	10552	CB		C 399	54.560				С
								·	

ATO	4 10555	CG	ΨVD	C 399	E4 F3					
ATON				C 399						C
ATO					53.73				•	č
ATON				C 399	53.70		90.477	1.00 20.71		. C
	•			C 399	54.51	3 90.151	90.374	1.00 20.44		
ATON			TYR		54.51	6 89.169				, C,
ATON				C 399	55.33	5 90.035				: o
MOTA	1 10565	CD2	TYR	C 399	55.34	4 91.013				С
ATON	1 10567	С	TYR	C 399	56.03				l	С
ATON	1 10568	0		C 399	56.74					C
ATOM				C 400	30.74				;	0
. ATOM				C 400	55.44					N
ATOM			VAL	C 400	55.68					Ċ
			VAL	C 400	54.90		85.819	1.00 21.24		Č
ATOM			- VAL	C 400	55.29	99.756	84.923			C
ATOM	•			C 400	53.37	3 98.316	85.790	1.00 21.27		Ċ
ATOM			VAL	C 400	57.16	97.604	85.364	1.00 21.58		C
ATOM		0	VAL	C 400	57.742		84.283	1.00 21.38		· C
. ATOM	1 10585	N	GLU	C 401	57.76	97.696		1.00 21.31		0
ATOM	10587	CA	GLU	C 401	59.19		86.558	1.00 22.02		. N
ATOM				C 401			86.765	1.00 22.50		С
ATOM			GLU	C 401	59.504		88.271	1.00 22.71		С
ATOM		CD		C 401	59.083		88.854 ⁻	1.00 24.80		·C
ATOM			GLU (C 401	59.322		90.351	1.00 26.00		Č
ATOM		OFT	GLU (C 401		100.749	90.728	1.00 27.04		. 0
			GLU (C 401	59.095		91.149	1.00 27.07		
ATOM		C		C 401	60.099		86.128	1.00 22.24		0
ATOM		0	GLU (C 401	61.151	97.252	85.569	1.00 22.01		C
ATOM		N	ALA (C 402.	59.674	95.679	86.225	1.00 22.01		0
ATOM		CA	ALA (C 402	60.413		85.632	1.00 22.23		N
ATOM	10604	CB	ALA (C 402	59.864			1.00 21.76		С
ATOM	10608	С	ALA (C 402	60.314	04 714	86.097	1.00 21.70		С
ATOM	10609	Ο.	ALA (C 402	61.321		84.128	1.00 21.41		С
ATOM		N		2 403			83.449	1.00 21.22		0
ATOM		CA		2 403	59.102		83.625	1.00 21.25		N
ATOM		CB	TEU (403	58.863		82.192	1.00 21.39		Ċ
ATOM			TEO (403	57.370		81.942	1.00 21.10		č
		CG	TEO (403	56.973		80.473	1.00 21.04		c
ATOM		CDT	LEU (2 403	57.618	93.868	79.759	1.00 21.23		
ATOM	10623		LEU C	403	55.471	94.964	80.370	1.00 21.60		C
ATOM	10627	С	LEU C	403	59.593		81.508	1.00 21.83		C
ATOM	10628	0	LEU (60.208		80.451	1.00 21.24		C
ATOM	10629	N	LEU C	404	59.507	97.323	82.118	1.00 21.24		٥
ATOM	10631	CA	LEU C	404	60.217		81.642			'n
ATOM	10633	CB	LEU C		60.033			1.00 23.54	•	С
ATOM	10636	CG	LEU C		60.917		82.642	1.00 23.92		С
ATOM	10638	CD1	LEU C	404		100.838	82.554	1.00 25.19		C .
ATOM	10642	CD2	LEU C	101	60.304	101.443	81.154	1.00 27.52		С
ATOM	10646		LEU C		60.411	101.860	83.553	1.00 25.81		С
ATOM	10647	ŏ	LEU C		61.686		81.484	1.00 24.32		Ċ
ATOM	10648	Ň	DEO C	404	62.266		80.401	1.00 24.50		Ö
ATOM	10650	CA	SER C		62.264		82.573	1.00 25.23		N
ATOM			SER C		63.683	97.217	82.647	1.00 25.80		Ĉ
ATOM	10652	CB	SER C	405	63.989	96.620	84.037	1.00 26.32		
	10655	OG	SER C	405	63.851	97.551	85.112	1.00 27.50		C
ATOM	10657	С	SER C	405	64.093	96.188	81.569	1.00 25.70		0
ATOM	10658	0	SER C	405	65.128	96.317	80.915	1.00 25.70	•	· C
ATOM	10659	N	TYR C	406	63.262	95.170	81.399	1 00 25.38		0
ATOM	10661	CA	TYR C	406	63.587	94.041	80.545	1.00 25.90		N
MOTA	10663	CB	TYR C	406	62.589	92.906		1.00 26.24		С
MOTA	10666	CG	TYR C	406	62.786		80.769	1.00 25.52		С
MOTA	10667		TYR C	406		91.683	79.898	1.00 24.35	ē	С
ATOM	10669	CE1	TYR C	406	63.429	90.548	80.382	1.00 24.04		С
ATOM	10671	CZ	TYR C	400	63.586	89.422	79.584	1.00 22.32		Ċ
ATOM	10672		TIV C	400	63.093	89.428	78.315	1.00 20.54		Č.
ATOM	10674		TYR C	406	63.237	88.326	77.543	1.00 21.00		ŏ
0.5	200/3	CHZ	TYR C	406.	62.449	90.516	77.819	1.00 20.39		·Č
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MOTA	10676	CD2	TYR	C	406	62.296	91.638	78.605	1.00 21.70	C
ATOM	10678	C	TYR	С	406	63.621	94.467	79.082	1.00 27.56	C
ATOM	10679	ŏ	TYR			64.556	94.101	78.365	1.00 27.64	ŏ
MOTA	10680	N	THR			62.614	95.239	78.656	1.00 29.01	N
MOTA	10682	CA	THR	С	407	62.495	95.714	77.266	1.00 30.12	C
MOTA	10684	CB	THR	С	407	61.170	96.471	77.044	1.00 29.66	C
ATOM	10686	OG1				60.979	97.458	78.066	1.00 27.76	O
						59.974	95.548	77.183		
MOTA	10688	CG2	THR						1.00 29.40	C
MOTA	10692	С	THR			63.650	96.643	76.900	1.00 32.37	С
ATOM	10693	0	THR	С	407	64.193	96.578	75.785	1.00 32.25	0
MOTA	10694	N	ARG			64.029	97.489	77.859	1.00 34.93	N
ATOM	10696	CA	ARG		408	65.144		77.680	1.00 37.43	Ċ
MOTA	10698	CB	ARG			65.228		78.845	1.00 37.99	С
ATOM	10701	CG	ARG	С	408		100.860	78.411	1.00 40.93	С
ATOM	10704	CD	ARG	С	408	65.857	101.952	78.909	1.00 44.75	С
ATOM	10707	NE	ARG				103.150	79.413	1.00 48.25	N
							103.186	80.468	1.00 50.24	č
MOTA	10709	CZ	ARG							
ATOM	10710		ARG		408		102.084	81.167	1.00 51.53	N
MOTA	10713	NH2	ARG	С	408	63.761	104.338	80.829	1.00 50.42	N
ATOM	10716	С	ARG	С	408	66.472	97.656	77.487	1.00 38.95	С
ATOM	10717	ō	ARG			67.464		77.036	1.00 38.99	Ō
ATOM.	10718	N			409	66.469		77.844	1.00 40.77	N
MOTA	10720	CA	ILE	С	409	67.505	95.391	77.447	1.00 41.64	С
MOTA	10722	CB	ILE	С	409	67.941	94.592	78.681	1.00 41.57	С
ATOM	10724	CG1				68.996		79.458	1.00 41.47	С
ATOM	10727	CD1			409	68.633		80.891	1.00 40.71	Č
										Č
ATOM	10731	CG2	ILE			68.462		78.282	1.00 41.94	C
MOTA	10735	С	ILE	С	409	67.124		76.203	1.00 42.62	С
ATOM	10736	0	ILE	С	409	67.655	94.771	75.127	1.00 42.69	0
ATOM	10737	N			410	66.235		76.304	1.00 43.56	N
ATOM	10739	CA			410	65.826		75.101	1.00 44.44	Ċ
										C
MOTA	10741	CB			410	64.316		75.087	1.00 44.79	С
ATOM	10744	CG	LYS	С	410	63.734	92.042	73.657	1.00 44.91	С
ATOM	10747	CD	LYS	С	410	62.604	91.015	73.645	1.00 44.67	С
ATOM	10750	CE			410	62.061	90.789	72.233	1.00 44.52	C
ATOM	10753	NZ			410	61.779		71.938	1.00 44.64	Ŋ
MOTA	10757	С			410	66.179		73.814	1.00 44.90	C
ATOM	10758	0	LYS	С	410	67.136	93.128	73.119	1.00 45.15	0
ATOM	10759	N	ARG	С	411	65.407	94.547	73.494	1.00 45.25	N
ATOM	10761	CA			411	65.760		72.394	1.00 45.54	C
ATOM	10763	CB			411	64.745		71.223	1.00 45.91	Č
										Č
MOTA	10766	CG			411	64.244		70.836	1.00 47.88	C
MOTA	10769	CD			411	63.762		69.363	1.00 50.08	С
ATOM	10772	NE	ARG	C	411	62.572	92.977	69.270	1.00 51.85	N
MOTA	10774	CZ	ARG	C	411	61.801	92.834	68.182	1.00 52.30	С
ATOM	10775		ARG			62.081		67.058	1.00 51.46	N
				~	411					
MOTA	10778	NH2			411	60.740		68.221	1.00 51.88	N
MOTA	10781	С			411	.65.895		72.989	1.00 44.58	C
MOTA	10782	0	ARG	С	411	64.907	97.516	73.337	1.00 44.52	• 0
MOTA	10783	N	PRO	С	412	67.118	97.353	73.146	1.00 43.52	N
MOTA	10784	CA			412	67.335		73.656	1.00 42.85	C
					412	68.805		74.111		Č
MOTA	10786	CB							1.00 43.05	C
MOTA	10789	CG			412	69.259		73.954	1.00 43.40	C
ATOM	10792	CD	PRO	С	412	68.390		72.874	1.00 43.60	C
MOTA	10795	С			412	67.115		72.599	1.00 41.83	С
MOTA	10796	ō			412		100.982	72.974	1.00 41.57	ō
ATOM					413				1.00 40.57	
	10797	N				67.063		71.317		N
MOTA	10799	CA			413		100.396	70.224	1.00 39.64	C
MOTA	10801	CB	GLN	С	413	67.788	100.061	69.050	1.00 39.85	C
ATOM	10804	CG			413	69.160	100.752	69.130	1.00 40.39	С
MOTA	10807	CD			413		100.359	67.981	1.00 41.42	Č
										•

MOTA	10808	OE1	GLN C	413	70 38	8 101.181	67 112	1 00 41 00	
ATOM	10809		GLN C		70.30	0 101.101		1.00 41.02	
					70.46			1.00 42.51	
ATOM	10812	C	GLN C			4 100.517	69.745	1.00 38.41	
ATOM.	10813	0	GLN C			6 101.360	68.918	1.00 38.15	
ATOM	10814	N	ASP C	414	64.51	7 99.678	70.269	1.00 37.13	
ATOM	10816	CA	ASP C	414	63.09		70.068	1.00 36.31	•
MOTA	10818	СВ	ASP C		62.43		69.769		
ATOM	10821	CG						1.00 36.47	
			ASP C		60.99		69.258	1.00 36.99	
MOTA	10822		ASP C		60.68			1.00 36.52	
MOTA	10823	OD2	ASP C	: 414	60.09	4 97.791	69.556	1.00 39.00	
MOTA	10824	С	ASP C	: 414	62.53	3 100.505	71.335	1.00 35.41	
MOTA	10825	0	ASP C		61.83	9 99.879		1.00 35.23	
ATOM	10826	N	GLN C			2 101.776			•
ATOM	10828	CA	GLN C				71.522	1.00 34.39	
						9 102.570		1.00 33.63	
MOTA	10830	СВ	GLN C		62.68	2 104.044	72.436	1.00 33.86	
ATOM	10833	CG	GLN C			9 104.583		1.00 35.40	
ATOM	10836	CD	GLN C	415	62.26	6 106.094	71.022	1.00 38.18	
ATOM	10837	OE1	GLN C	415		1 106.742		1.00 39.96	•
	10838		GLN C		61.87	5 106.672	69.860	1.00 36.76	•
ATOM	10841	C	GLN C			2 102.451			
ATOM	10842							1.00 32.52	
		0	GLN C			1 102.422		1.00 32.48	
MOTA	10843	N	LEU C			0 102.362		1.00 31.46	
ATOM	10845	CA	LEU (: 416	58.62	2 102.381	71.682	1.00 30.61	
MOTA	10847	CB	LEU C	416	58.08	4 102.868	70.329	1.00 30.36	
ATOM	10850	CG	LEU C	: 416	58.18	9 104.381	70.082	1.00 30.01	
ATOM	10852		LEU C			2 104.728	68.657	1.00 29.67	
ATOM	10856		LEU C			7 105.197	71 141		•
ATOM	10860	C	LEU C					1.00 28.54	
						2 101.053		1.00 30.03	
MOTA	10861	0	LEU C		. 56.76	3 100.887		1.00 29.86	
MOTA		N	ARG C			5 100.120		1.00 29.46	
MOTA	10864	CA	ARG C	: 417	58.31	2 98.747	72.691	1.00 28.84	
ATOM	10866	CB	ARG C	: 417	59.53	2 97.849		1.00 29.00	
ATOM	10869	CG	ARG C		59.15		72.839	1.00 30.27	
ATOM	10872	CD	ARG C		60.29	6 95.455	72.695		
ATOM	10875	NE	ARG C		59.78		72.033	1.00 30.86	
ATOM	10877	CZ						1.00 30.70	•
			ARG C		59.18		71.728	1.00 29.97	
ATOM	10878		ARG C		59.03		70.562	1.00 30.02	
MOTA	10881		ARG C		58.75		71.884	1.00 29.81	
MOTA	10884	С	ARG C	417	57.44	6 98.640	73.935	1.00 27.85	
ATOM	10885	0	ARG C	417	56.31		73.891	1.00 27.41	•
ATOM	10886	N	PHE C		58.00		75.050	1.00 26.77	
MOTA	10888	CA	PHE C		57.24	4 99.151	76.292		
ATOM	10890	CB	PHE C		58.12		77.366	1.00 26.02	
ATOM	10893	CG	PHE C					1.00 26.07	
ATOM					57.46		78.695	1.00 26.71	
	10894		PHE C			2 98.859		1.00 28.37	
ATOM	10896		PHE C		56.38		80.637	1.00 28.78	
MOTA	10898	CZ	PHE C	418		1 100.272	81.214	1.00 28.66	
ATOM	10900	CE2	PHE C	418	56.79	7 101.363	80.532	1.00 28.52	
ATOM	10902	CD2	PHE C	418	57.37	6 101.200	79.288	1.00 28.05	
MOTA	10904	С	PHE C		55.86		76.101		
ATOM	10905	ŏ	PHE C					1.00 24.94	
ATOM	10906				54.83		76.253	1.00 24.89	•
		N	PRO C			9 101.136	75.726	1.00 23.51	
ATOM	10907	CA	PRO C			7 101.788	75.485	1.00 22.93	
MOTA	10909	CB	PRO C		54.93	6 103.158	74.911	1.00 22.79	
ATOM	10912	CG	PRO .C		56.36	7 103.140	74.728	1.00 22.59	
MOTA	10915	CD	PRO C	419		5 102.053	75.499	1.00 23.02	_
MOTA	10918	С	PRO C			7 101.003	74.512	1.00 22.59	•
MOTA	10919	Ō	PRO C			0 100.964	74.739	1.00 22.39	
ATOM	10920	N	ARG C			4 100.364			
ATOM	10922	CA	ARG C				73.489	1.00 22.69	
ATOM	10922	CB			53.37		72.612	1.00 23.38	
21 OL1	10264	CD	ARG C	420	54.16	8 98.976	71.439	1.00 23.63	

ATOM 10927 CG ARG C 420 54.203 99.911 70.269 1.00 26.56 ATOM 10930 CD ARG C 420 55.015 99.395 69.093 1.00 30.48 ATOM 10933 NE ARG C 420 55.017 67.508 1.00 31.76 ATOM 10935 CZ ARG C 420 56.150 100.877 67.508 1.00 35.20 ATOM 10936 NH1 ARG C 420 56.089 101.755 66.508 1.00 37.26 ATOM 10939 NH2 ARG C 420 56.089 101.755 66.508 1.00 35.48 ATOM 10942 C ARG C 420 52.690 98.382 73.340 1.00 23.13 ATOM 10943 O ARG C 420 51.501 98.192 73.181 1.00 23.66 ATOM 10944 N MET C 421 53.427 97.613 74.123 1.00 22.82 ATOM 10946 CA MET C 421 52.833 96.546 74.923 1.00 23.10 ATOM 10948 CB MET C 421 53.911 95.828 75.737 1.00 23.53 ATOM 10951 CG MET C 421 54.814 94.952 74.908 1.00 24.77 ATOM 10954 SD MET C 421 55.712 93.498 76.830 1.00 30.07 ATOM 10959 C MET C 421 55.712 93.498 76.830 1.00 30.07 ATOM 10950 N MET C 421 50.753 96.313 76.104 1.00 22.88 ATOM 10960 N MET C 422 51.009 98.616 77.541 1.00 22.80 ATOM 10963 CA LEU C 422 51.009 98.616 77.541 1.00 23.02 ATOM 10965 CB LEU C 422 51.009 98.616 77.541 1.00 23.02 ATOM 10968 CG LEU C 422 52.762 99.540 79.273 1.00 23.02 ATOM 10970 CD1 LEU C 422 53.371 100.881 79.647 1.00 23.97 ATOM 10978 C LEU C 422 48.625 98.900 77.408 1.00 22.31 ATOM 10979 O LEU C 422 48.625 98.900 77.408 1.00 22.34 ATOM 10979 O LEU C 422 48.625 98.900 77.408 1.00 22.34 ATOM 10979 O LEU C 422 48.625 98.900 77.408 1.00 22.34	С
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ATOM 10982 CA MET C 423 48.697 100.067 74.869 1.00 21.52	С
ATOM 10984 CB MET C 423 49.110 100.766 73.558 1.00 22.01	С
ATOM 10987 CG MET C 423 49.774 102.117 73.701 1.00 24.76	C
ATOM 10990 SD MET C 423 48.657 103.496 74.017 1.00 31.13	s
ATOM 10991 CE MET C 423 48.560 103.343 75.702 1.00 33.55	С
ATOM 10995 C MET C 423 47.827 98.884 74.539 1.00 20.24	C
ATOM 10996 O MET C 423 46.648 99.035 74.349 1.00 19.37	0
ATOM 10997 N LYS C 424 48.413 97.705 74.440 1.00 19.65	N
ATOM 10999 CA LYS C 424 47.597 96.507 74.262 1.00 20.04	С
ATOM 11001 CB LYS C 424 48.463 95.272 73.967 1.00 20.40 '	C
ATOM 11004 CG LYS C 424 49.280 95.397 72.697 1.00 20.67	C
ATOM 11007 CD LYS C 424 48.381 95.612 71.561 1.00 23.11	C
ATOM 11010 CE LYS C 424 49.066 95.450 70.262 1.00 25.92	C
ATOM 11013 NZ LYS C 424 48.621 96.506 69.295 1.00 27.86	N
ATOM 11017 C LYS C 424 46.643 96.245 75.439 1.00 19.40	С
ATOM 11018 O LYS C 424 45.559 95.758 75.216 1.00 19.42	0
ATOM 11019 N LEU C 425 47.035 96.569 76.664 1.00 18.89	N
ATOM 11021 CA LEU C 425 46.104 96.544 77.786 1.00 19.22	С
ATOM 11023 CB LEU C 425 46.748 97.006 79.113 1.00 19.39	С
ATOM 11026 CG LEU C 425 48.042 96.310 79.577 1.00 20.01	С
ATOM 11028 CD1 LEU C 425 48.628 96.958 80.790 1.00 20.39	C
ATOM 11032 CD2 LEU C 425 47.800 94.848 79.833 1.00 20.80	С
ATOM 11036 C LEU C 425 44.901 97.422 77.495 1.00 19.35	С
ATOM 11037 O LEU C 425 43.777 97.057 77.841 1.00 20.43	0
ATOM 11038 N VAL C 426 45.114 98.581 76.877 1.00 18.93	N
ATOM 11040 CA VAL C 426 43.998 99.449 76.508 1.00 18.25	С
ATOM 11042 CB VAL C 426 44.463 100.753 75.869 1.00 17.72	С
ATOM 11044 CG1 VAL C 426 43.305 101.664 75.634 1.00 17.87	С
ATOM 11048 CG2 VAL C 426 45.431 101.441 76.728 1.00 17.62	C
ATOM 11052 C VAL C 426 43.060 98.702 75.544 1.00 18.59	Č
ATOM 11053 O VAL C 426 41.866 98.691 75.740 1.00 18.88	ő
ATOM 11054 N SER C 427 43.589 98.055 74.522 1.00 18.98	N
ATOM 11056 CA SER C 427 42.762 97.244 73.626 1.00 19.96	c C
ATOM 11058 CB SER C 427 43.615 96.702 72.494 1.00 20.17	c
ATOM 11061 OG SER C 427 44.168 97.785 71.753 1.00 23.61	ő
ATOM 11063 C SER C 427 42.054 96.068 74.305 1.00 20.13	Č
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ATOM ATOM ATOM ATOM ATOM ATOM ATOM	11064 11065 11067 11069 11072 11074 11078 11082	CA CB CG CD1	SER LEU LEU LEU LEU LEU LEU	000000	428 428 428 428 428 428	40.925 42.718 42.133 43.143 44.127 45.361 43.481 40.932	95.759 95.405 94.265 93.575 92.748 92.391 91.488 94.658	73.969 75.249 75.939 76.818 75.990 76.836 75.392 76.778	1.00 20.1 1.00 20.1 1.00 20.1 1.00 20.1 1.00 20.1 1.00 19.1	31 50 04 36 66 60	0 11 0 0 0 0 0 0
ATOM ATOM	11083 11084	O N	LEU ARG	С		40.072 40.836	93.821 95.929	77.048 77.155	1.00 22.	14	0
ATOM	11086	CA	ARG			39.649	96.408	77.855	1.00 22.		N C
ATOM	11088	CB			429	39.888	97.775.	78.466	1.00 22.	76	C.
ATOM ATOM	11091 11094	CD			429 429	40.774	97.734	79.595	1.00 22.		С
ATOM	11094	NE			429	40.192 41.209	97.040 97.025	80.807 81.856	1.00 22.		C N
ATOM	11099	CZ	ARG		429	41.181	97.742	82.964	1.00 18.		C
ATOM	11100		ARG	С	429	40.154	98.517	83.256	1.00 18.		N
ATOM	11103		ARG			42.184	97.631	83.811	1.00 19.		N
ATOM ATOM	11106 11107	C			429 429	38.472	96.516		1.00 23.		C
ATOM -	11107	O N			429	37.347 38.708	96.174 97.050	77.309 75.741	1.00 24. 1.00 23.		O.
ATOM	11110	CA			430 ·	37.625	97.177	74.792	1.00 23.		N C
MOTA	11112	CB			430	38.035	98.089	73.602	1.00 24.		č
ATOM	11114	OG1			430	38.077	99.451	74.041	1.00 24.	20	0
ATOM	11116	CG2			430	36.957	98.078	72.485	1.00 24.		С
ATOM ATOM	11120 11121	С 0			430 430	37.213 36.038	95.773 95.475	74.332 74.228	1.00 23.		C
ATOM	11122	N	LEU			38.178	94.896	74.220	1.00 22.1 1.00 22.		О , И
ATOM	11124	CA	LEU			37.847	93.547	73.642	1.00 22.		C
MOTA	11126	CB	LEU		431	39.108	92.776	73.221	1.00 22.		С
ATOM	11129	CG	LEU			39.777	93.235	71.926	1.00 21.		С
ATOM ATOM	11131 11135	CD1	LEU			41.229	92.866	71.902	1.00 20.		C
ATOM	11133	CDZ	LEU		431	39.119 37.040	92.608 92.784	70.753 74.710	1.00 22.		C
ATOM	11140	ŏ	LEU			36.163	92.006	74.710	1.00 21.		0
MOTA	11141	N			432	37.320	93.048	75.977	1.00 22.		N
ATOM	11143	CA			432	36.553	92.468	77.084	1.00 22.		С
ATOM ATOM	11145 11148	CB			432	37.152	92.941	78.409	1.00 22.		Ċ
ATOM	11150	OG C			432 432	36.399 35.060	92.501 92.824	79.500 76.994	1.00 24.		0
ATOM	11151	ŏ				34.193	91.959	77.149	1.00 22. 1.00 22.		C
ATOM	11152	N			433	34.775	94.095	76.727	1.00 23.		Ŋ
MOTA	11154	CA			433	33.417	94.548	76.439	1.00 23.	57	C
ATOM	11156	CB	SER		433	33.391	96.032	76.104	1.00 23.		С
ATOM ATOM	11159 11161	OG C	SER		433	33.570 32.809	96.801	77.267	1.00 27.		0
ATOM	11162	õ	SER			31.679	93.845 93.410	75.263 75.333	1.00 23. 1.00 24.		C
MOTA	11163	N	VAL			33.543	93.770	74.158	1.00 23.		N
MOTA	11165	CA	VAL			33.012	93.189	72.947	1.00 23.		C
ATOM	11167	CB	VAL			34.014	93.293	71.790	1.00 23.		С
ATOM ATOM	11169 11173		VAL VAL			33.522 34.210	92.577	70.549	1.00 24.		C
ATOM	11177	C	VAL			32.630	94.724 91.752	71.434 73.247	1.00 23. 1.00 23.		C
ATOM	11178	Ō,	VAL			31.640	91.258	72.725	1.00 23.		Ö
MOTA	11179	N	HIS	С	435	33.381	91.105	74.134	1.00 23.		N
ATOM	11181	CA	HIS			33.095	89.722	74.541	1.00 23.	00	С
MOTA MOTA	11183	CB	HIS			34.271	89.100	75.309	1.00 22.		C
ATOM	11186 11187	CG ND1	HIS		435 435	33.997 33.873	87.712 87.382	75.770 77.097	1.00 21. 1.00 20.		C N
ATOM	11189		HIS			33.587	86.100	77.207	1.00 20.		C
MOTA	11191		HIS			33.481	85.596	75.995	1.00 21.		N

MOTA	11193	CD2	птс	~	125	22 722	06 505	75 070	1 00 01 14	_
ATOM	11195		HIS			33.732	86.585	75.078	1.00 21.14	C
				-		31.795	89.622	75.358	1.00 23.30	C
ATOM	11196	0	HIS			30.950	88.751	75.106	1.00 23.08	0
ATOM	11197	N	SER			31.624	90.523	76.313	1.00 23.61	N
ATOM	11199	CA	SER			30.348	90.644	77.026	1.00 24.19	С
MOTA	11201	CB	SER			30.412	91.801	78.033	1.00 23.96	С
MOTA	11204	OG	SER			31.376	91.512	79.061	1.00 25.95	0
ATOM	11206	C	SER	С	436	29.137	90.794	76.086	1.00 24.55	С
ATOM	11207	0	SER	С	436	28.107	90.189	76.304	1.00 24.85	0
ATOM	11208	N	GLU	С	437	29.270	91.566	75.018	1.00 25.17	N
ATOM	11210	CA	GLU	С	437	28.182	91.721	74.060	1.00 25.38	С
MOTA	11212	CB	GLU			28.445	92.896	73.113	1.00 26.09	Ċ
MOTA	11215	CG	GLU			28.585	94.242	73.846	1.00 29.84	Č
MOTA	11218	CD	GLU			29.059	95.406	72.951	1.00 35.02	č
ATOM	11219	OE1				28.537	96.536	73.136	1.00 38.26	ŏ
ATOM	11220	OE2	GLU			29.945	95.214	72.065	1.00 30.20	ő
ATOM	11221	C			437	27.946	90.439	73.280	1.00 37.73	C
ATOM	11222	Ö	GLU			26.836				
							90.146	72.933	1.00 24.34	0
MOTA	11223	N	GLN			28.991	89.682	73.011	1.00 23.03	N
MOTA	11225	CA	GLN			28.870	88.392	72.345	1.00 22.31	C
MOTA	11227	CB	GLN			30.260	87.855	72.023	1.00 22.24	,C
MOTA	11230	CG			438	30.306	86.428	71.474	1.00 21.39	С
MOTA	11233	CD	GLN		438	29.680	86.321	70.112	1.00 21.22	С
ATOM	11234	OE1				30.380	86.346	69.096	1.00 21.68	0
MOTA	11235	NE2	GLN			28.363	86.200	70.077	1.00 20.20	N
ATOM	11238	С			438	28.170	87.374	73.209	1.00 22.57	C
MOTA	11239	0			438	27.448	86.542	72.707	1.00 22.01	0
MOTA	11240	N			439	28.427	87.425	74.514	1.00 23.28	N
ATOM	11242	CA	VAL	С	439	27.872	86.477	75.476	1.00 23.42	С
MOTA	11244	CB	VAL	С	439	28.555	86.642	76.880	1.00 23.00	C
MOTA	11246	CG1	VAL			27.799	85.909	77.962	1.00 22.05	Č
ATOM	11250					29.994	86.150	76.831	1.00 22.25	Č
MOTA	11254	С			439	26.369	86.703	75.560	1.00 24.45	č
ATOM	11255	Õ			439	25.580	85.759	75.508	1.00 24.80	ŏ
MOTA	11256	N			440	25.996	87.972	75.683	1.00 25.55	й
ATOM	11258	CA			440	24.601	88.411	75.700	1.00 26.37	Ĉ
ATOM	11260	СВ			440	24.529	89.929	75.994	1.00 26.69	č
ATOM	11263	CG	PHE		440	23.247	90.599	75.550	1.00 29.64	Č
ATOM	11264		PHE			22.212	90.846	76.475	1.00 23.04	č
ATOM	11266		PHE			21.032	91.452	76.082	1.00 31.89	c
ATOM	11268	CZ			440	20.858	91.834	74.742	1.00 31.89	
ATOM	11270		PHE							C
ATOM	11270		PHE		440	21.869 23.072	91.605	73.808	1.00 32.53	C
							91.000	74.217	1.00 31.85	C
ATOM	11274	C			440	23.925	88.041	74.378	1.00 26.30	C
ATOM	11275	0			440	22.802	87.550	74.383	1.00 26.75	0
ATOM	11276	N			441	24.602	88.260	73.256	1.00 26.40	N
ATOM	11278	CA			441	24.084	87.849	71.937	1.00 26.57	C
ATOM	11280	CB			441	25.089	88.169	70.814	1.00 26.19	С
ATOM	11284	C			441	23.737	86.366	71.910	1.00 26.95	С
MOTA	11285	0			441	22.739	85.974	71.341	1.00 27.04	0
ATOM	11286	N			442	24.563	85.553	72.548	1.00 27.68	N
MOTA	11288	CA			442	24.405	84.115	72.513	1.00 28.09	C
MOTA	11290	CB			442	25.705	83.446	72.953	1.00 28.18	C
ATOM	11293	CG			442	26.805	83.488	71.897	1.00 27.85	С
MOTA	11295	CD1	LEU	С	442	28.176	83.211	72.498	1.00 26.93	C
MOTA	11299	CD2	LEU	C	442	26.486	82.474	70.801	1.00 29.66	Č
ATOM	11303	С			442	23.246	83.654	73.383	1.00 28.80	Č
MOTA	11304	0			442	22.641	82.644	73.101	1.00 28.43	ŏ
ATOM	11305	N			443	22.943	84.404	74.436	1.00 30.18	N
ATOM	11307	CA			443	21.785	84.137	75.303	1.00 31.15	Č
ATOM	11309	CB			443	21.807	85.082	76.515	1.00 31.37	č

ATOM	11312	CG	ARG	С	443	23.031	84.919	77.410	1.00	33.62			•	С
ATOM .	11315	CD	ARG			22.787	85.087	78.902		36.68				C
MOTA	11318	NE	ARG	С	443 .	21.711	84.218	79.389		38.98				N.
ATOM	11320	CZ	ARG		443		83.799	80.649		40.80				C
MOTA	11321		ARG	С	443 ·	22.414	84.141	81.614		41.65				N.
ATOM ·	11324		ARG			20.527	83.023	80.944		41.03		•	•	N
ATOM	11327	С			443	20.461	84.303	74.550		31.48	•			C
ATOM	11328	ō			.443	19.476	83.632	74.832		31.71				
ATOM	11329	N	LEU			20.440	85.216	73.593		32.22		•		0
ATOM	11331	CA	LEU		444	19.275	85.391	72.735		32.49				C M
ATOM	11333	СВ	LEU			19.263	86.791	72.088		32.71				C
ATOM	11336	CG			444	19.608	88.050	72.915		33.52				C
ATOM	11338		LEU		444	19.703	89.258	71.979		33.88			-	C
ATOM	11342	CD2	LEU			18.645	88.336	74.081		33.13				C
ATOM	11346	C			444	19.174	84.304	71.650		32.21			_	C
ATOM	11347	ō			444	18.157	84.220	71.030		32.73				0
ATOM	11348	N			445	20.207	83.495	71.422		32.00				
ATOM	11350	CA			445	20.088	82.295	70.574		32.03		•		N
ATOM	11352	CB			445	21.333	82.109	69.714		32.03	•			C
ATOM	11355	CG			445	21.583	83.152	68.654		32.95	•			
ATOM	11358	CD			445	23.080	83.312	68.378		35.56				~
ATOM	11359		GLN			23.633	84.409	68.550		37.57				C
ATOM	11360	NE2				23.747	82.212	67.993		35.16				0
ATOM	11363	C			445	19.881	81.006	71.400						N
ATOM	11364	ŏ			445	20.138	79.892	70.920		32.02 ⁻ 31.71				C
ATOM	11365	N			446	19.411	81.174	72.637						0
ATOM	11367	CA			446	19.342	80.111	73.653		32.13 32.17		•		N
ATOM	11369	CB			446	18.143	79.189	73.380		32.17				C
ATOM	11372	CG			446 .	16.862	79.694	74.031		34.14				C
ATOM	11373		ASP		446	16.670	80.933	74.031		35.83				0
ATOM	11374				446.	15.992	78.929	74.510						0
ATOM	11375	C			446	20.627	79.286	73.866		35.63 31.43				0
ATOM	11376	Ö			446	20.552	78.140	74.286		32.15				C
ATOM	11377	N	LYS			21.793	79.869	73.592		30.34				0
ATOM	11379	CA	LYS			23.091	79.250	73.891		29.31				N
MOTA	11381	CB	LYS			24.023	79.305	72.675		29.61				C
ATOM	11384	CG	LYS			23.320	78.828	72.073		32.16				0
ATOM	11387	CD	LYS			24.207	77.982	70.451		34.89				0000
ATOM	11390	CE	LYS			24.630	78.733	69.176		35.99				C
ATOM	11393	NZ	LYS			26.113	78.642	68.909		36.81				N
ATOM	11397	C	LYS			23.687	79.970	75.089		27.49				C
ATOM	11398	Ō	LYS			24.207	81.067	74.960		26.86				Ö
ATOM	11399	N	LYS			23.566	79.337	76.260		25.77				N
ATOM	11401	CA	LYS		448	23.990	79.901	77.547		24.04				C
ATOM	11403	CB	LYS			22.863	79.739	78.584		24.27				C
ATOM	11406	CG	LYS			21.498	80.363	78.155		25.53				C
ATOM	11409	CD	LYS			20.343	80.087	79.162		26.43		•		c
ATOM	11412	CE	LYS			18.949	79.916	78.473		26.81				C
ATOM	11415	NZ	LYS			17.814	79.670	79.440		25.41				N
ATOM	11419	C	LYS			25.278	79.239	78.044		21.92				C
ATOM	11420	0	LYS			25.595	78.115	77.704		21.75				. 0
ATOM	11421	N	LEU			26.031	79.947	78.857		19.78				N
ATOM	11423	CA	LEU			27.305	79.422	79.319		18.23				C
MOTA	11425	CB	LEU			28.199	80.556	79.849		18.32				č
MOTA	11428	CG	LEU	С	449	28.668	81.644	78.858		18.67				c
ATOM	11430		LEU	С	449	29.337	82.783	79.629		20.33				C
MOTA	11434	CD2	LEU	Ċ	449	29.635	81.123	77.812		18.73				c
MOTA	11438	C	LEU			27.085	78.365	80.390		16.30				c
ATOM	11439	0	LEU	C	449	26.057	78.370	81.055		16.20				. 0
ATOM	11440	N	PRO			28.045	77.461	80.551		14.39				N
ATOM	11441	CA	PRO			28.007	76.492	81.634		13.54				C
														•

ATOM 11449 CD PRO C 450	ATOM	11443	СВ	PRO (C 4	450	2	8.971	75.405	81.153	1.00	13.19		С
ATOM 11453 O PRO C 450 28.494 77.134 82.922 1.00 13.00 C ATOM 11454 N PRO C 451 28.397 76.569 84.064 1.00 12.74 N ATOM 11455 CA PRO C 451 28.397 77.181 85.377 1.00 13.15 C ATOM 11460 CG PRO C 451 28.397 77.181 85.377 1.00 13.15 C ATOM 11460 CG PRO C 451 27.162 75.186 85.671 1.00 12.39 C ATOM 11463 CD PRO C 451 29.772 77.833 85.611 1.00 12.67 C ATOM 11466 C PRO C 451 29.772 77.833 85.611 1.00 12.16 C ATOM 11467 O PRO C 451 29.727 77.833 85.611 1.00 14.02 C ATOM 11467 O PRO C 451 29.727 77.833 85.611 1.00 14.02 C ATOM 11467 O PRO C 451 29.823 78.916 86.195 1.00 13.72 O ATOM 11467 CA LEU C 452 30.867 77.208 85.183 1.00 14.95 N ATOM 11470 CA LEU C 452 33.287 76.744 85.169 1.00 15.64 C ATOM 11470 CD LEU C 452 33.287 76.744 85.169 1.00 16.66 C ATOM 11475 CG LEU C 452 34.560 77.001 86.002 1.00 19.48 C ATOM 11485 C LEU C 452 33.287 76.744 85.169 1.00 21.90 C ATOM 11485 C LEU C 452 33.200 79.885 85.315 1.00 15.20 C ATOM 11487 N LEU C 453 33.207 79.885 85.315 1.00 15.20 C ATOM 11487 N LEU C 453 33.207 79.885 85.315 1.00 15.20 C ATOM 11487 N LEU C 453 33.208 80.352 82.774 1.00 15.20 C ATOM 11494 CG LEU C 453 33.208 80.352 82.774 1.00 15.79 C ATOM 11496 CD LEU C 453 33.208 80.352 82.774 1.00 15.70 C ATOM 11496 CD LEU C 453 33.186 78.997 80.762 1.00 14.82 C ATOM 11496 CD LEU C 453 33.186 78.997 80.762 1.00 14.82 C ATOM 11496 CD LEU C 453 33.186 78.997 80.762 1.00 14.82 C ATOM 11506 C SER C 454 29.864 79.950 81.291 1.00 15.79 C ATOM 11490 CD LEU C 453 33.186 78.997 80.762 1.00 14.82 C ATOM 11506 C SER C 454 29.864 79.950 84.810 1.00 15.79 C ATOM 11506 C SER C 454 38 33.186 78.997 80.762 1.00 14.82 C ATOM 11506 C SER C 454 29.864 79.950 84.810 1.00 15.20 C ATOM 11506 C SER C 454 29.864 79.950 80.792 1.00 19.00 80.792 C ATOM 11507 C SER C 454 29.864 79.950 80.792 1.00 19.00 80.792 C ATOM 11508 C SER C 454 29.864 79.950 80.792 1.00 19.00 80.792 C ATOM 11508 C SER C 454 29.864 79.950 80.792 1.00 19.00 80.792 C ATOM 11516 C SER C 455 30.908 80.909 80.792 1.00 10.00 10.00 24.37 C ATOM 11517 C SER C 455 30.008 80.909 80.909 80.909	MOTA	11446	CG	PRO (C	450	2	9.946	76.115	80.341	1.00	13.88		С
ATOM 11453 O PRO C 450 28.494 77.134 82.922 1.00 13.00 C ATOM 11454 N PRO C 451 28.397 76.569 84.064 1.00 12.74 N ATOM 11455 CA PRO C 451 28.397 77.181 85.377 1.00 13.15 C ATOM 11460 CG PRO C 451 28.397 77.181 85.377 1.00 13.15 C ATOM 11460 CG PRO C 451 27.162 75.186 85.671 1.00 12.39 C ATOM 11463 CD PRO C 451 29.772 77.833 85.611 1.00 12.67 C ATOM 11466 C PRO C 451 29.772 77.833 85.611 1.00 12.16 C ATOM 11467 O PRO C 451 29.727 77.833 85.611 1.00 14.02 C ATOM 11467 O PRO C 451 29.727 77.833 85.611 1.00 14.02 C ATOM 11467 O PRO C 451 29.823 78.916 86.195 1.00 13.72 O ATOM 11467 CA LEU C 452 30.867 77.208 85.183 1.00 14.95 N ATOM 11470 CA LEU C 452 33.287 76.744 85.169 1.00 15.64 C ATOM 11470 CD LEU C 452 33.287 76.744 85.169 1.00 16.66 C ATOM 11475 CG LEU C 452 34.560 77.001 86.002 1.00 19.48 C ATOM 11485 C LEU C 452 33.287 76.744 85.169 1.00 21.90 C ATOM 11485 C LEU C 452 33.200 79.885 85.315 1.00 15.20 C ATOM 11487 N LEU C 453 33.207 79.885 85.315 1.00 15.20 C ATOM 11487 N LEU C 453 33.207 79.885 85.315 1.00 15.20 C ATOM 11487 N LEU C 453 33.208 80.352 82.774 1.00 15.20 C ATOM 11494 CG LEU C 453 33.208 80.352 82.774 1.00 15.79 C ATOM 11496 CD LEU C 453 33.208 80.352 82.774 1.00 15.70 C ATOM 11496 CD LEU C 453 33.186 78.997 80.762 1.00 14.82 C ATOM 11496 CD LEU C 453 33.186 78.997 80.762 1.00 14.82 C ATOM 11496 CD LEU C 453 33.186 78.997 80.762 1.00 14.82 C ATOM 11506 C SER C 454 29.864 79.950 81.291 1.00 15.79 C ATOM 11490 CD LEU C 453 33.186 78.997 80.762 1.00 14.82 C ATOM 11506 C SER C 454 29.864 79.950 84.810 1.00 15.79 C ATOM 11506 C SER C 454 38 33.186 78.997 80.762 1.00 14.82 C ATOM 11506 C SER C 454 29.864 79.950 84.810 1.00 15.20 C ATOM 11506 C SER C 454 29.864 79.950 80.792 1.00 19.00 80.792 C ATOM 11507 C SER C 454 29.864 79.950 80.792 1.00 19.00 80.792 C ATOM 11508 C SER C 454 29.864 79.950 80.792 1.00 19.00 80.792 C ATOM 11508 C SER C 454 29.864 79.950 80.792 1.00 19.00 80.792 C ATOM 11516 C SER C 455 30.908 80.909 80.792 1.00 10.00 10.00 24.37 C ATOM 11517 C SER C 455 30.008 80.909 80.909 80.909	MOTA	11449	CD	PRO (C 4	450	2	9.242	77.273	79.717	1.00	14.55		С
ATOM 11454 N PRO C 451 28.119 76.559 84.064 1.00 12.36 N ATOM 11455 CA PRO C 451 28.119 76.559 84.064 1.00 12.74 N ATOM 11457 CB PRO C 451 28.197 76.012 86.336 1.00 12.67 C ATOM 11467 CB PRO C 451 28.197 76.012 86.336 1.00 12.67 C ATOM 11463 CD PRO C 451 27.162 75.186 85.671 1.00 12.39 C ATOM 11463 CD PRO C 451 27.162 75.186 85.671 1.00 12.39 C ATOM 11466 C PRO C 451 29.823 78.916 86.195 1.00 12.60 C ATOM 11467 O PRO C 451 29.823 78.916 86.195 1.00 13.72 O ATOM 11467 O PRO C 451 29.823 78.916 86.195 1.00 13.72 O ATOM 11467 O PRO C 451 29.823 78.916 86.195 1.00 13.72 O ATOM 11470 CA LEU C 452 30.867 77.208 85.183 1.00 14.95 N ATOM 11470 CA LEU C 452 32.181 77.737 85.516 1.00 15.64 C ATOM 11475 CG LEU C 452 33.287 76.744 85.169 1.00 16.26 C ATOM 11475 CG LEU C 452 34.435 76.290 87.347 1.00 21.20 C ATOM 11416 CD LEU C 452 34.435 76.290 87.347 1.00 21.20 C ATOM 11486 O LEU C 452 33.2454 79.050 84.810 1.00 15.44 C ATOM 11486 O LEU C 452 33.2454 79.050 84.810 1.00 15.44 C ATOM 11487 N LEU C 453 33.287 76.529 85.395 1.00 15.57 N ATOM 11487 N LEU C 453 32.088 80.352 85.298 1.00 21.90 C ATOM 11487 N LEU C 453 32.088 80.352 82.774 1.00 15.57 N ATOM 11490 CB LEU C 453 32.088 80.352 82.774 1.00 15.57 C ATOM 11491 CB LEU C 453 32.088 80.352 82.774 1.00 15.57 C ATOM 11491 CB LEU C 453 33.1882 79.190 83.618 1.00 15.57 C ATOM 11490 CD LEU C 453 33.164 78.987 80.762 1.00 14.87 C ATOM 11490 CD LEU C 453 33.164 78.987 80.762 1.00 14.87 C ATOM 11500 CD LEU C 453 33.164 78.987 80.762 1.00 14.87 C ATOM 11500 CD LEU C 453 33.164 78.987 80.762 1.00 14.87 C ATOM 11500 CD LEU C 453 33.164 78.987 80.762 1.00 14.87 C ATOM 11500 CD LEU C 453 33.164 78.987 80.762 1.00 14.87 C ATOM 11500 CD LEU C 453 33.100 81.371 83.009 1.00 16.75 C ATOM 11500 CD LEU C 453 33.100 80.97 80.97 80.762 1.00 14.87 C ATOM 11500 CD LEU C 453 33.00 80.89 80.352 82.774 1.00 15.79 C ATOM 11500 CD LEU C 453 33.00 80.89 80.352 82.774 1.00 15.79 C ATOM 11510 CB SER C 454 29.974 82.657 80.99 81.291 1.00 12.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80	ATOM	11452	С	PRO (C 4	450	2	8.494	77.134	82.922	1.00	13.00		С
ATOM 11455 CA PRO C 451 28.319 76.569 84.064 1.00 12.74 N ATOM 11457 CB PRO C 451 28.390 77.181 85.377 1.00 13.15 C ATOM 11460 CG PRO C 451 27.162 75.186 85.671 1.00 12.39 C ATOM 11463 CD PRO C 451 27.162 75.186 85.671 1.00 12.39 C ATOM 11466 C PRO C 451 27.439 75.269 84.197 1.00 12.16 C ATOM 11467 O PRO C 451 29.772 77.833 85.611 1.00 14.02 C ATOM 11468 N LEU C 452 30.867 77.208 85.183 1.00 14.95 N ATOM 11470 CA LEU C 452 30.867 77.208 85.183 1.00 14.95 N ATOM 11470 CA LEU C 452 30.867 77.208 85.183 1.00 14.95 N ATOM 11470 CG LEU C 452 33.287 76.744 85.169 1.00 15.64 C ATOM 11470 CD LEU C 452 34.560 77.001 86.002 1.00 19.48 C ATOM 11485 C LEU C 452 34.560 76.582 85.298 1.00 21.90 C ATOM 11485 C LEU C 452 33.287 76.744 85.169 1.00 15.20 C ATOM 11487 N LEU C 452 33.200 79.885 85.315 1.00 15.20 C ATOM 11487 N LEU C 453 33.200 79.885 85.315 1.00 15.20 C ATOM 11487 N LEU C 453 31.882 79.190 84.810 1.00 15.70 C ATOM 11491 CB LEU C 453 33.208 80.352 82.774 1.00 15.70 C ATOM 11491 CB LEU C 453 33.186 78.997 80.762 1.00 14.82 C ATOM 11496 CD LEU C 453 33.186 78.997 80.762 1.00 14.82 C ATOM 11491 CB LEU C 453 33.186 78.997 80.762 1.00 14.82 C ATOM 11496 CD LEU C 453 33.186 78.997 80.762 1.00 14.82 C ATOM 11496 CD LEU C 453 33.186 78.997 80.762 1.00 14.82 C ATOM 11496 CD LEU C 453 33.186 78.997 80.762 1.00 14.82 C ATOM 11506 C A SER C 454 29.864 78.838 79.117 1.00 15.29 C ATOM 11506 C A SER C 454 29.864 78.838 79.17 1.00 14.87 C ATOM 11506 C A SER C 454 29.864 80.893 83.491 1.00 15.29 C ATOM 11506 C A SER C 454 29.864 80.893 83.491 1.00 15.29 C ATOM 11506 C A SER C 454 29.864 80.893 83.491 1.00 15.29 C ATOM 11507 C A SER C 454 29.864 80.893 83.491 1.00 15.29 C ATOM 11508 C A SER C 454 29.864 80.893 83.491 1.00 15.29 C ATOM 11507 C A SER C 454 29.864 80.893 83.491 1.00 12.20 C ATOM 11516 C A SER C 454 29.864 80.893 83.491 1.00 12.20 C ATOM 11517 C A SER C 454 29.864 80.893 83.491 1.00 12.20 C ATOM 11518 C A SER C 454 29.864 80.893 83.491 1.00 12.20 C ATOM 11516 C B LU C 455 30.968 80.978 80.958 1.00 22.10 90.00 C ATOM 115	ATOM	11453	0	PRO (C 4	450	2	9.233	78.116	82.862	1.00	12.36		
ATOM 11457 CB PRO C 451 28.390 77.181 85.377 1.00 13.15 C ATOM 11460 CG PRO C 451 27.162 75.186 85.377 1.00 12.39 C ATOM 11463 CD PRO C 451 27.439 75.269 84.197 1.00 12.39 C ATOM 11466 C PRO C 451 27.439 75.269 84.197 1.00 12.16 C ATOM 11467 OPRO C 451 29.772 77.833 85.611 1.00 14.02 C ATOM 11468 N LEU C 452 30.867 77.208 85.183 1.00 14.95 N ATOM 11470 CA LEU C 452 30.867 77.208 85.183 1.00 14.95 N ATOM 11470 CA LEU C 452 33.287 76.744 85.169 1.00 13.72 O ATOM 11470 CA LEU C 452 33.287 76.744 85.169 1.00 19.48 C ATOM 11475 CG LEU C 452 34.435 76.290 87.347 1.00 12.20 C ATOM 11476 CD LEU C 452 34.435 76.290 87.347 1.00 12.20 C ATOM 11481 CDZ LEU C 452 33.207 79.895 85.183 1.00 14.95 N ATOM 11480 C LEU C 452 33.207 79.895 85.295 1.00 21.90 C ATOM 11480 C LEU C 452 33.207 79.895 85.395 1.00 15.44 C ATOM 11480 C LEU C 452 33.207 79.895 85.395 1.00 15.20 C ATOM 11480 C LEU C 453 32.088 80.352 85.298 1.00 21.90 C ATOM 11490 C A LEU C 453 32.088 80.352 82.774 1.00 15.20 C ATOM 11490 C A LEU C 453 32.088 80.352 82.774 1.00 15.70 C ATOM 11490 C A LEU C 453 33.188 79.190 83.618 1.00 15.57 N ATOM 11490 C A LEU C 453 33.186 78.997 80.762 1.00 14.82 C ATOM 11490 C A LEU C 453 33.186 78.997 80.762 1.00 14.82 C ATOM 11490 C A LEU C 453 33.186 78.997 80.762 1.00 14.82 C ATOM 11500 C DZ LEU C 453 33.164 78.838 79.217 1.00 15.70 C ATOM 11500 C DZ LEU C 453 33.164 78.838 79.217 1.00 15.70 C ATOM 11500 C DZ LEU C 453 33.166 78.997 80.762 1.00 14.82 C ATOM 11500 C DZ LEU C 453 33.166 78.997 80.762 1.00 14.82 C ATOM 11500 C DZ LEU C 453 33.166 78.997 80.762 1.00 14.80 C ATOM 11500 C DZ LEU C 453 33.166 78.997 80.762 1.00 14.80 C ATOM 11500 C DZ LEU C 453 33.166 78.997 80.762 1.00 14.80 C ATOM 11510 C DZ LEU C 453 33.160 80.893 83.497 1.00 15.79 C ATOM 11500 C DZ LEU C 453 33.100 80.993 80.497 1.00 16.75 C ATOM 11500 C DZ LEU C 453 33.100 80.993 80.497 1.00 16.75 C ATOM 11500 C DZ LEU C 453 33.100 80.993 80.993 80.497 1.00 12.79 C ATOM 11510 C B SER C 454 28.798 80.995 80.995 80.993 80.993 80.993 80.993 80.993 80.993 80.993 80.993 80	ATOM	11454	N	PRO (C 4	451	2	8.119		84.064	1.00	12.74		N
ATOM 11460 CG PRO C 451				PRO (C 4	451								С
ATOM 11463 CD PRO C 451			CB							86.336	1.00	12.67		С
ATOM 11466 CD PRO C 451 29.72 77.839 84.197 1.00 12.16 CD ATOM 11467 O PRO C 451 29.72 77.833 85.611 1.00 14.02 CD ATOM 11468 N LEU C 452 30.867 77.208 85.183 1.00 14.95 N ATOM 11470 CD LEU C 452 32.887 76.744 85.169 1.00 16.26 CD ATOM 11472 CB LEU C 452 33.287 76.744 85.169 1.00 16.26 CD ATOM 11475 CG LEU C 452 33.287 76.744 85.169 1.00 16.26 CD ATOM 11475 CG LEU C 452 34.560 77.001 86.002 1.00 19.48 CD ATOM 11475 CG LEU C 452 34.560 77.001 86.002 1.00 19.48 CD ATOM 11475 CD LEU C 452 34.560 77.001 86.002 1.00 19.48 CD ATOM 11485 CD LEU C 452 34.545 79.505 84.810 1.00 15.44 CD ATOM 11485 CD LEU C 452 33.287 76.744 85.169 1.00 15.44 CD ATOM 11486 CD LEU C 452 33.200 79.885 85.315 1.00 15.44 CD ATOM 11487 N LEU C 452 33.200 79.885 85.315 1.00 15.57 N ATOM 11487 N LEU C 453 31.882 79.190 83.618 1.00 15.57 N ATOM 11489 CD LEU C 453 32.088 80.352 82.774 1.00 15.57 N ATOM 11491 CB LEU C 453 32.085 80.352 82.774 1.00 15.57 N ATOM 11494 CG LEU C 453 33.186 78.997 80.762 1.00 15.70 CD ATOM 11496 CD LEU C 453 33.186 78.997 80.762 1.00 14.82 CD ATOM 11500 CD LEU C 453 33.186 78.997 80.762 1.00 14.82 CD ATOM 11500 CD LEU C 453 33.100 81.371 83.009 1.00 16.75 CD ATOM 11500 N SER C 454 29.864 80.893 83.497 1.00 15.20 CD ATOM 11500 N SER C 454 29.864 80.893 83.497 1.00 15.20 CD ATOM 11500 N SER C 454 29.864 80.893 83.497 1.00 18.15 N ATOM 11513 CD SER C 454 29.864 80.893 83.497 1.00 18.15 N ATOM 11515 CD SER C 454 29.894 81.291 1.00 15.29 CD ATOM 11500 N SER C 454 29.894 81.291 1.00 15.00 1.00 16.75 CD ATOM 11510 CD SER C 454 29.894 81.291 1.00 15.00 1.00 16.75 CD ATOM 11510 CD SER C 454 29.894 81.291 1.00 15.00 1.00 16.75 CD ATOM 11510 CD SER C 454 29.894 81.291 1.00 15.00 1.00 16.75 CD ATOM 11510 CD SER C 454 29.894 81.291 1.00 15.00 1.00 16.75 CD ATOM 11511 CD SER C 454 29.894 81.291 1.00 15.00 1.00 16.75 CD ATOM 11511 CD SER C 454 29.894 81.291 1.00 15.00 1.00 16.75 CD ATOM 11511 CD SER C 454 29.894 81.291 1.00 15.00 1.00 16.75 CD ATOM 11511 CD SER C 454 29.894 81.291 1.00 15.00 1.00 16.75 CD ATOM 11511 CD SER C 454 29.9														С
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ATOM	11569	CH2	TRP	C	457	35.342	82.912	79.050	1.00 2	2 02		~
ATOM	11571	CZ2	TRP		457	35.752						C
					457		84.054	79.706	1.00 2			С
ATOM	11573	.C				29.383	86.772	82.376	1.00 2			С
MOTA	11574	0			457	29.107	87.719	81.658	1.00 2	5.61		0
MOTA	11575	N	ASP	С	458	28.440	86.136	83.051	1.00 2	5.15		N
MOTA	11577	CA	ASP	С	458	27.042	86.483	82.822	1.00 2			Ċ
MOTA	11579	CB	ASP	С	458	26.113	85.302	83.133	1.00 2			C
ATOM	11582	CG			458	26.092	84.253	82.027				Č
ATOM	11583		ASP						1.00 2			С
						25.897	84.555	80.820	1.00 2			0
ATOM	11584		ASP			26.240	83.062	82.305	1.00 2			0
ATOM	11585	С			458	26.676	87.673	83.676	1.00 2	6.06		С
ATOM.	11586	0	ASP	С	458	27.023	87.696	84.848	1.00 2	7.02		0
ATOM	11587	013	444	C	500	39.286	80.254	75.403	1.00 4			0
ATOM	11588	S12	444	С	500	39.775	80.845	74.203	1.00 4			s
ATOM	11589		444		500	41.215	81.038	74.217	1.00 4			ő
ATOM	11590		444			39.451	79.745					
ATOM	11591		444					72.851	1.00 4			C
						40.471	79.528	71.857	1.00 5			С
ATOM	11593		444			40.204	78.677	70.760	1.00 5			С
MOTA	11595		444			38.934	78.063	70.652	1.00 5			С
ATOM	11597		444			37.927	78.301	71.643	1.00 5	1.23		С
ATOM	11599	C06	444	С	500	38.173	79.156	72.744	1:00 4			C
MOTA	11601	N15			500	38.849	82.286	73.738	1.00.3			N
ATOM	11602		444			39.244	82.987	72.414	1.00 3			
ATOM	11605		444									C
						39.453	84.483	72.598	1.00 3			С
ATOM	11606		444			39.958	85.057	71.481	1.00 3			F
MOTA	11607		444			40.295	84.801	73.592	1.00 3			F
ATOM	11608		444			38.313	85.094	72.919	1.00 3	3.30		F
ATOM	11609		444		500	37.374	82.286	73.914	1.00 3		•	С
ATOM	11610	C24	444	С	500	36.883	82.707	75.167	1.00 2			Č
MOTA	11612		444			35.501	82.756	75.423	1.00 2			č
ATOM	11614	C28	444			36.428	81.910	72.894	1.00 2			
ATOM	11616		444		500							C
						35.038	81.954	73.152	1.00 2		•	С
ATOM	11618				500	34.531	82.386	74.419	1.00 2			С
MOTA	11619		444			33.039	82.455	74.834	1.00 2	1.39		С
MOTA	11620		444			32.127	83.103	73.773	1.00 2	3.09		C
MOTA	11621	F36	444	С	500	30.827	83.196	74.160	1.00 2	5.25		F
ATOM	11622	F37	444	С	500	32.501	84.349	73.501	1.00 2			F
ATOM	11623	F35	444	С	500	32.176	82.499	72.577	1.00 2			F
ATOM	11624		444		500	32.816	83.068	76.132	1.00 1			ō
ATOM	11626		444		500	32.555	81.023	75.003	1.00 2			Č
ATOM	11627		444		500		80.224					C
ATOM	11628					33.054		74.045	1.00 2			F
					500	33.018	80.546	76.167	1.00 2			F
ATOM	11629		444		500	31.227	80.824	75.072	1.00 2			F
ATOM	11630	N	LEU			64.184		74.238	1.00 2	0.17		N
MOTA	11632	CA			220	63.239	118.118	73.082	1.00 2	0.68		С
ATOM	11634	CB	LEU	D	220	61.787	118.487	73.472	1.00 2			C
ATOM	11637	CG			220		117.814	74.673	1.00 2			Č
MOTA	11639		LEU				118.775	75.506	1.00 2			Č
ATOM	11643		LEU				116.601	74.204				٥
ATOM	11647	C.			220				1.00 2			C
ATOM							118.974	71.849	1.00 2			C
	11648	0			220		120.062	71.943	1.00 1			0
MOTA	11651	N			221		118.463	70.699	1.00 2			N
MOTA	11653	CA			221		119.110	69.398	1.00 1	9.70		С
MOTA	11655	CB	THR	D	221	63.137	118.039	68.248	1.00 1			С
MOTA	11657	OG1	THR	Ď	221		117.533	68.250	1.00 1			ō
ATOM	11659	CG2	THR	D	221		116.776	68.470	1.00 1			č
ATOM	11663	c			221		120.275	69.233	1.00 1			
ATOM	11664	Ö										C
					221		120.214	69.745	1.00 1			0
ATOM	11665	N			222		121.315	68.501	1.00 1			N
ATOM	11667	CA			222		122.401	68.071	1.00 1			С
MOTA	11669	CB	ALA	D	222	62.496	123.189	66.914	1.00 1	9.19		С

ATOM	11673	С	ALA				121.901	67.654	1.00 19.70	C
ATOM	11674	0	ALA				122.539	67.958	1.00 19.07	0
ATOM	11675	N	ALA				120.770	66.946	1.00 19.78	N
ATOM ATOM	11677 11679	CA	ALA ALA				120.239 119.252	66.365	1.00 20.35	C
ATOM	11683	CB C	ALA				119.252	65.263 67.428	1.00 20.37 1.00 21.69	C
ATOM	11684	Ö	ALA				119.455	67.248	1.00 21.09	. C
ATOM	11685	Ŋ	GLN				119.090	68.519	1.00 22.23	O N
ATOM	11687	CA	GLN				118.471	69.621	1.00 22.25	C
ATOM	11689	CB	GLN				117.536	70.420	1.00 22.22	Č
ATOM	11692	ĊĠ	GLN				116.092	69.897	1.00 21.63	Č
MOTA	11695	CD	GLN				115.250	70.715	1.00 20.75	Č
MOTA	11696	OE1					115.751	71.089	1.00 17.25	Ō
MOTA	11697	NE2	GLN			59.845	113.985	71.000	1.00 19.61	N
MOTA	11700	С	GLN	D	224	57.661	119.565	70.533	1.00 22.14	С
MOTA	11701	0	GLN	D	224	56.567	119.426	71.084	1.00 21.67	0
MOTA	11702	N			225		120.650	70.662	1.00 22.21	N
ATOM	11704	CA	GLU				121.845	71.327	1.00 22.89	. С
MOTA	11706	CB			225		122.868	71.392	1.00 23.15	. С
MOTA	11709	CG			225		122.424	72.216	1.00 25.60	C
MOTA	11712	CD			225		123.017	73.609	1.00 28.92	C
ATOM	11713	OE1					123.047	74.201	1.00 30.22	0
MOTA	11714	OE2	GLU		225		123.459 122.484	74.087	1.00 30.46	0
ATOM ATOM	11715 11716	С О			225		122.464	70.576 71.190	1.00 23.00 1.00 23.62	C 0
ATOM	11717	N			226		122.478	69.246	1.00 23.02	N
ATOM	11719	CA			226		123.087	68.419	1.00 22.54	. C
MOTA	11721	CB			226		123.049	66.920	1.00 22.44	č
ATOM	11724	CG			226		123.602	65.874	1.00 21.51	č
ATOM	11726		LEU				125.088	65.911	1.00 21.08	Č
ATOM	11730						123.149	64.472	1.00 21.32	Č
ATOM	11734	С			226		122.298	68.684	1.00 22.31	С
ATOM	11735	0			226		122.859	68.991	1.00 21.87	0
ATOM	11736	N			227		120.982	68.605	1.00 22.30	N
ATOM	11738	CA			227		120.070	68.740	1.00 22.44	C
ATOM	11740	CB			227		118.643	68.560	1.00 22.58	С
ATOM	11743	CG			227		117.601	68.927	1.00 25.04	C
MOTA	11746	SD			227		115.999	69.121	1.00 30.41	S
ATOM	11747	CE			227		115.735	67.302	1.00 28.56	C
ATOM ATOM	11751 11752	C			227 227		120.209	70.088	1.00 21.96	C
ATOM	11753	N O			228		120.213	70.149 71.158	1.00 22.52 1.00 21.49	О И
MOTA	11755	CA			228		120.324	72.530	1.00 21.49	C
ATOM	11757	CB			228		120.087	73.578	1.00 20.40	Č
ATOM	11759	CG1			228		118.623	73.467	1.00 19.82	č
ATOM	11762		ILE				118.356	74.007	1.00 19.30	Č
ATOM	11766		ILE				120.351	74.990	1.00 19.35	. C
ATOM	11770	C			228		121.740	72.823	1.00 20.46	C
MOTA	11771	0			228	51.410	121.802	73.339	1.00 20.39	0
ATOM	11772	N			229		2 122.814	72.480	1.00 20.51	N
MOTA	11774	CA			229		124.151	72.667	1.00 20.98	С
MOTA	11776	СВ			229		125.192	72.259	1.00 21.36	С
ATOM	11779	CG			229		125.276	73.219	1.00 23.14	C
MOTA	11782	CD			229		126.348	72.835	1.00 25.43	C
MOTA MOTA	11783	OE1 NE2			229		. 127.379	72.278	1.00 26.43	0
ATOM	11784 11787	NE2 C			229		126.117	73.147	1.00 26.80	N
ATOM	11788	0			229		124.336	71.862 72.250	1.00 20.82 1.00 20.41	C
ATOM	11789	N			230		123.119	70.732	1.00 20.41	O
ATOM	11791	CA			230		123.763	69.878	1.00 20.92	C
ATOM	11793	CB			230		123.070	68.529	1.00 21.82	Č
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ATOM	11796	CG	GLN	D	230		49.702	123.825	67.353	1.00 23.74		С
MOTA	11799	CD	GLN					123.253	67.014	1.00 26.14		Č
MOTA	11800	OE1						122.152	67.460	1.00 26.53		Ö
MOTA	11801		GLN				47.572	123.986	66.215	1.00 28.27		N
MOTA	11804	С	GLN			•		123.165	70.578	1.00 20.57		Ĉ
ATOM	11805	0	GLN					123.806	70.692	1.00 20.72		Ö
ATOM	11806	N	LEU					121.937	71.060	1.00 20.16		N
ATOM	11808	CA	LEU	D	231			121.266	71.827	1.00 19.67		Ĉ
ATOM	11810	CB	LEU					119.871	72.246	1.00 19.77		C
ATOM	11813	CG	LEU			•		118.858	71.142	1.00 19.65	•	Č
ATOM	11815		LEU					117.583	71.789	1.00 18.59		C
ATOM	11819		LEU					118.591	70.251	1.00 19.17		C
ATOM	11823	С			231			122.090	73.066			С
MOTA	11824	0	LEU	D	231		46.478	122.222	73.342	1.00 18.20		0
MOTA	11825	N	VAL	D	232			122.653	73.773	1.00 18.56		N
MOTA	11827	CA.			232	•		123.362	75.012	1.00 18.84	,	С
ATOM	11829	CB			232			123.748	75.777	1.00 18.93	•	С
MOTA	11831	CG1	VAL					124.704	76.948	1.00 17.92		С
MOTA	11835		VAL						76.333	1.00 20.00		С
MOTA	11839	С			232			124.594	74.720	1.00 19.13		C.
ATOM	11840	0			232			124.843	75.404	1.00 19.31		0
ATOM	11841	N			233			125.348	73.704	1.00 19.27		N
MOTA	11843	, CA			233			126.586	73.291	1.00 19.37		C
ATOM	11845	CB	ALA	D	233			127.240	72.269	1.00 19.55		С
MOTA	11849	С			233			126.371	72.728	1.00 19.98		C
MOTA	11850	0	ALA	D	233		45.089	127.187	72.914	1.00 20.08		0
MOTA	11851	N	ALA	D	234		45.758	125.264	72.033	1.00 21.06		N
MOTA	11853	CA	ALA	D	234		44.474	124.889	71.456	1.00 22.23		С
ATOM	11855	CB	ALA	D	234		44.642	123.592	70.591	1.00 22.36		С
MOTA	11859	С			234		43.450	124.632	72.544	1.00 23.31		С
ATOM	11860	0	ALA	D	234		42.309	125.095	72.482	1.00 24.03		0
ATOM	11861	N	GLN	D	235		43.874	123.838	73.512	1.00 24.09		N
MOTA	11863	CA	GLN	D	235		43.114	123.529	74.699	1.00 24.90		С
ATOM	11865	CB	GLN	D	235		44.009	122.697	75.611	1.00 25.31		С
ATOM	·11868	CG	GLN	D	235		43.341	122.166	76.838	1.00 26.35		С
MOTA	11871	CD	GLN	D	235		43.536	120.682	76.988	1.00 26.06		С
ATOM	11872	OE1	GLN	D	235		44.651	120.189	76.890	1.00 25.19		0
ATOM	11873	NE2	GLN	D	235			119.967	77.242	1.00 28.28		N
MOTA	11876	С			235			124.780	75.425	1.00 25.24		С
MOTA	11877	Ο,			235			124.919	75.809	1.00 25.03		0
ATOM	11878	N			236			125.689	75.599	1.00 26.10		N
ATOM	11880	CA			236			126.942	76.297	1.00 27.26		С
MOTA	11882	CB			236			127.668	76.471	1.00 27.42		С
ATOM	11885	CG			236			128.873	77.398	1.00 27.58		С
MOTA	11887		LEU					128.433	78.835	1.00 28.10		С
ATOM	11891		LEU					129.627	77.178	1.00 28.09		С
MOTA	11895	С			236			127.861	75.581	1.00 28.27		C.
MOTA	11896	0			236			128.566	76.228	1.00 28.34		0
MOTA	11897	N			237			127.861	74.252	1.00 29.81		N
MOTA	11899	CA			237			128.705	73.426	1.00 31.35		C
ATOM	11901	СВ			237			128.976	72.061	1.00 31.48		С
ATOM	11904	CG			237			129.641	72.208	1.00 32.45		C
ATOM	. 11907	CD			237			130.205	70.924	1.00 31.73		Č.
ATOM	11908		GLN					129.873	69.838	1.00 32.01		0
ATOM	11909		GLN					131.045	71.060	1.00 32.05		N
MOTA	11912	C			237		40.183	128.123	73.246	1.00 32.76		C
ATOM	11913	0			237			128.827	72.802	1.00 32.45		0
ATOM	11914	N			238			126.844	73.594	1.00 34.75		N
ATOM	11916	CA			238	•		126.156	73.503	1.00 36.55		· C
ATOM	11918	CB			238			124.656	73.302	1.00 36.77		C
MOTA	11921	SG	CYS	D	238		39.390	124.234	71.597	1.00 39.71		S
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ATOM	11922	С	CYS	D	238	37.857	126.431	74.741	1.00 37.59	· G
ATOM	11923	0	CYS	D	238		126.626	74.628		C
ATOM	11924	N			239				1.00 37.65	0
ATOM							126.442	75.905	1.00 39.05	N
	11926	CA			239		126.902	77.178	1.00 40.28	C
AŤOM	11928	CB			239	39.011	126.876	78.261	1.00 40.18	· c
ATOM	11931	CG	ASN	D	239		125.862	79.316	1.00 39.87	
MOTA	11932		ASN				126.222			. С
ATOM								80.479	1.00 38.69	0
	11933		ASN				124.571	78.932	1.00 39.42	N
ATOM	11936	С	ASN	D	239	37.351	128.324	77.125	1.00 41.84	C
ATOM	11937	0	ASN	D	239		128.523	77.412	1.00 42.19	
ATOM	11938	N			240		129.304			0
ATOM	11940							76.794	1.00 43.61	N
		CA			240		130.711	76.662	1.00 45.18	C
MOTA	11942	CB	LYS	D	240	38.901	131.563	76.017	1.00 45.40	· C
ATOM	11945	CG	LYS	D	240	40.076	131.903	76.939	1.00 46.18	
ATOM	11948	CD			240		133.129	76.457		Ç
ATOM	11951	CE							1.00 46.88	С
					240	42.395	132.894	76.551	1.00 47.30	C
MOTA	11954	NZ			240		132.129	75.377	1.00 46.32	· N
ATOM	11958	С	LYS	D	240	36.516	130.833	75.808	1.00 46.26	Ċ
MOTA	11959	0	LYS	D	240		131.406	76.255		
MOTA	11960	N			241				1.00 46.33	0
							130.284	74.583	1.00 47.51	N
ATOM	11962	CA			241		130.183	73.604	1.00 48.07	C
ATOM	11964	CB	ARG	D	241	35.823	129.102	72.528	1.00 48.22	č
ATOM	11967	CG			241	34 952	129.071	71.245		_
MOTA	11970	CD			241	25 512	120.071		1.00 48.46	С
ATOM							129.840	70.020	1.00 48.76	C
	11973	NE			241		130.762	69.449	1.00 49.21	N
ATOM	11975	cz	ARG	D	241	34.720	131.636	68.452	1.00 48.77	C
ATOM	11976	NH1	ARG	D	241		131.740	67.862	1.00 48.93	
MOTA	11979		ARG				132.418			N
ATOM	11982							68.041	1.00 48.40	N
		C	ARG				129.908	74.311	1.00 48.33	С
ATOM	11983	0			241	33.081	130.399	73.859	1.00 48.47	0
MOTA	11984	N	SER	D	242	34.183	129.135	75.410	1.00 48.36	. N
ATOM	11986	CA			242		129.062	76.407		
ATOM	11988	CB			242				1.00 48.27	С
							127.612	76.863	1.00 48.06	С
ATOM	11991	OG			242		126.745	76.395	1.00 47.14	0
MOTA	11993	С	SER	D	242	33.342	129.991	77.626	1.00 48.31	Ċ
ATOM	11994	0	SER	D	242		129.642	78.592	1.00 48.11	
ATOM	11995	N	VAL				129.089			0
ATOM	11997					22.120	129.009	80.179	1.00 27.32	N
		CA	VAL				127.776	80.822	1.00 27.70	С
MOTA	11999	CB	VAL			24.089	127.310	81.263	1.00 27.90	C
ATOM	12001	CG1	VAL	D	249	24.052	126.476	82.555	1.00 27.79	č
ATOM	12005	CG2					126.513	80.139	1 00 20 41	2
ATOM	12009	c	VAL	<u></u>	2/0	21 752	120.313		1.00 28.41	С
ATOM						21.752	127.785	82.035	1.00 27.71	С
	12010	0	VAL			21.708	128.764	82.778	1.00 27.82	0
MOTA	12011	N	THR			21.055	126.669	82.251	1.00 27.63	N
MOTA	12013	CA	THR	D	250	20.052	126.550	83.310	1.00 27.53	C
MOTA	12015	CB	THR				125.242			
ATOM	12017		מעות	_	250			83.156	1.00 27.53	C
			THR				125.082	81.799	1.00 27.43	0
MOTA	12019	CG2				17.959	125.284	83.951	1.00 27.68	С
ATOM	12023	С	THR	D	250	20.709	126.563	84.687	1.00 27.51	č
MOTA	12024	0	THR				125.885			
ATOM	12025	N	PRO					84.890	1.00 27.39	0
							127.312	85.635	1.00 27.46	N
ATOM	12026	CA	PRO				127.387	86.980	1.00 27.48	C
MOTA	12028	CB	PRO	D	251	20.172	128.715	87.539	1.00 27.49	č
MOTA	12031	CG	PRO				129.216	86.544	1.00 27.35	~
ATOM	12034	CD	PRO							С
ATOM							128.142	85.522	1.00 27.39	C
	12037	C	PRO				126.198	87.867	1.00 27.56	C
MOTA	12038	0	PRO	D	251	19.190	125.733	87.845	1.00 27.69	Ö
ATOM	12039	N	TRP	D	252		125.725	88.634	1.00 27.62	
ATOM	12041	CA	TRP				124.581		1 00 07 5	Ŋ
ATOM	12043	CB						89.549	1.00 27.55	. C
			TRP				124.691	90.628	1.00 27.55	C
ATOM	12046	CG	TRP	ט	252	22.524	123.453	91.445	1.00 27.48	С
										

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ATOM	12047		TRP		252	22.550	123.360	92.816	1.00 27.50			С
ATOM	12049	NE1	TRP	D	252	22.819	122.066	93.197	1.00 27.51			N
ATOM	12051		TRP		252		121.295	92.072	1.00 26.94			c
MOTA	12052		TRP				122.137	90.952	1.00 26.92		•	C
ATOM	12053	CE3	TRP	D	252	22.921	121.577	89.672	1.00 25.87			C
ATOM	12055	CZ3	TRP	D	252	23,193	120.232	89.547	1.00 24.88		•	C
ATOM	12057	CH2					119.422					~
			TRP					90.674	1.00 25.44			С
MOTA	12059	CZ2	TRP				119.930	91.944	1.00 25.75			С
MOTA	12061	С	TRP	D	252	19.786	124.407	90.196	1.00 27.43			C,
ATOM	12062	0	TRP				125.312	90.836	1.00 27.03			Ö
MOTA	12063	N	ALA				118.155	95.227	1.00 23.00			N
MOTA	12065	CA	ALA	D	260	12.344	116.854	94.696	1.00 23.32			. C
MOTA	12067	CB	ALA	D	260	11.832	115.729	95.597	1.00 23.03			С
ATOM	12071	Č	ALA				116.645	93.244	1.00 23.64	•		č
MOTA	12072	0	ALA	D	260	12.530	115.918	92.481	1.00 23.69			. 0
ATOM	12073	N	ALA	D	261	10.772	117.302	92.861	1.00 23.93			N
MOTA	12075	CA	ALA	ח	261	10 134	117.103	91.542	1.00 24.02			С
ATOM	12077										•	
		CB	ALA				117.448	91.625	1.00 24.06	•		С
MOTA	12081	С	ALA			10.811	117.867	90.378	1.00 24.05			С
ATOM	12082	0	ALA	D	261	11.689	117.323	89.700	1.00 23.74			0
ATOM	12083	N	ASP				119.124	90.161	1.00 24.17			N
ATOM	12085		ASP					89.121				
		CA			-		119.991		1.00 24.14			С
MOTA	12087	CB	ASP	D	262	10.240	121.335	89.036	1.00 24.11			С
MOTA	12090	CG	ASP	D	262	8.859	121.204	88.403	1.00 24.03	•		С
ATOM	12091	OD1	ASP	D	262	8.783	120.729	87.250	1.00 24.40			O
ATOM	12092		ASP				121.556					
								88.973	1.00 22.47			0
ATOM	12093	С	ASP			12.487	120.270	89.353	1.00 24.08			С
MOTA	12094	0	ASP	D	262	13.148	120.862	88.498	1.00 24.02			0
ATOM	12095	N	ATA	D	263	12,995	119.863	90.519	1.00 24.08			N
ATOM	12097	CA			263		119.986	90.863	1.00 24.12			
												C
ATOM	12099	СВ			263		119.827	92.363	1.00 24.05			С
MOTA	12103	Ç	ALA	D	263	15.235	118.953	90.116	1.00 24.31			С
MOTA	12104	0	ALA	D	263	16.154	119.316	89.388	1.00 24.40			0
MOTA	12105	N	ARG	D	264	14.906	117.672	90.298	1.00 24.43			N
ATOM	12107				264							
		CA					116.571	89.645				С
ATOM	12109	CB			264		115.220	89.857	1.00 24.78			С
MOTA	12112	CG	ARG	D	264	15.219	114.559	91.207	1.00 26.41			С
ATOM	12115	CD	ARG	D	264	16.128	113.313	91.153	1.00 28.02			С
ATOM	12118	NE			264		112.468	92.338	1.00 29.58			N
MOTA	12120	CZ			264		112.768	93.581	1.00 30.11			С
ATOM	12121	NH1	ARG	D	264	17.004	113.895	93.847	1.00 30.32			N
MOTA	12124	NH2	ARG	D	264	16.099	111.919	94.574	1.00 30.11			N
ATOM	12127	С	ARG	D	264		116.812	88.157	1.00 23.72			C
ATOM	12128											
		0			264		116.650	87.618	1.00 23.74			0
MOTA	12129	N			265		117.204	87.514	1.00 23.03			N
ATOM	12131	CA	GLN	D	265	14.637	117.457	86.071	1.00 22.54			C-
ATOM	12133	СB			265		118.023	85.671	1.00 22.69			C
ATOM	12136	CG			265							č
							117.084	85.914	1.00 23.55			С
MOTA	12139	CD			265		116.289	84.682	1.00 24.35			С
MOTA	12140	OE1	GLN	D	265	12.547	115.948	83.836	1.00 24.12			0
MOTA	12141	NE2	GLN	D	265	10.391	115.972	84.582	1.00 23.27			N
MOTA	12144	C			265		118.475	85.669	1.00 21.78			
												C
MOTA	12145	0			265		118.314	84.667	1.00 21.44			0
ATOM	12146	N			266	15.744	119.532	86.469	1.00 20.95			N
ATOM	12148	CA	GLN	D	266		120.686	86.191	1.00 20.34			C
ATOM	12150	СВ			266		121.911	86.942	1.00 20.32			č
											-	
MOTA	12153	CG			266		122.611	86.250	1.00 19.85			·C
MOTA	12156	CD			266		124.095	86.515	1.00 19.30			С
ATOM	12157		GLN			13.819	124.682	86.767	1.00 18.49			٠.0
ATOM	12158		GLN				124.712	86.462	1.00 18.45			N
ATOM	12161	C			266		120.493	86.534	1.00 19.81			Č
111 011		~	CLIM	ט	200	10.000	120.473	00.554	7.00 TA.OT			C

ATOM	12162	0	GLN	D	266	18.918	121.083	85.887	1.00 1	9 75	•
											0
ATOM	12163	N	ARG				119.707	87.558	1.00 1	9.26	N
ATOM	12165	CA	ARG	D	267	19.760	119.484	87.928	1.00 1	8.91	С
ATOM	12167	CB	ARG			19 975	118.831	89.307	1.00 1		
											C
MOTA	12170	CG	ARG	D	267	19.368	119.716	90.458	1.00 1	9.30	С
MOTA	12173	CD	ARG	D	267	20 088	119.498	91.791	1.00 1		Č
ATOM	12176	NE	ARG			19.276	119.747	92.990	1.00 1	9.05	N
ATOM	12178	CZ	ARG	D	267	18.259	118.992	93.394	1.00 1	9.29	C
ATOM	12179										
			ARG				117.927	92.698	1.00 1		N
MOTA	12182	NH2	ARG	D	267	17.605	119.304	94.501	1.00 1	9.74	N
ATOM	12185	С	ARG				118.607	86.850			
										8.71	С
ATOM	12186	0	ARG	D	267	21.551	118.745	86.522	1.00 1	8.59	0
ATOM	12187	N	PHE	D	268	19.540	117.732	. 86, 281	1.00 1	8 40	N
MOTA	12189	CA	PHE				116.860	85.186	1.00 1	8.TT	С
ATOM	12191	CB	PHE	D	268	18.951	115.694	85.016	1.00 1	7.95	С
ATOM	12194	CG			268		114.814	83.856	1.00 1		ä
											C
ATOM	12195	CDI	PHE	D	268		113.949	83.912	1.00 1	7.56	С
ATOM	12197	CE1	PHE	D	268	20.693	113.154	82.823	1.00 1	7 07	С
ATOM	12199										<u> </u>
		cz			268		113.236	81.669	1.00 1		С
MOTA	12201	CE2	PHE	D	268	18.865	114.109	81.602	1.00 1	6.96	C
ATOM	12203		PHE				114.893	82.686	1.00 1		Ċ.
											C
ATOM	12205	С			268	20.098	117.636	83.865	1.00 1	8.05	С
ATOM	12206	0	PHE	D	268	21,070	117.418	83.151	1.00 1	7.93	0
ATOM	12207	N			269		118.534				
								83.547	1.00 1		N
MOTA	12209	CA	ALA	D	269	19.231	119.343	82.316	1.00 1	7.76	С
ATOM	12211	CB	Δ.Τ.Δ	D	269		120.183	82.140	1.00 1		Ċ
											C
MOTA	12215	С			269		120.235	82.347	1.00 1		С
ATOM	12216	0	ALA	D	269	21.244	120.267	81.404	1.00 1	7.51	0
MOTA	12217	N			270		120.954	83.451	1.00 1		
											N
ATOM	12219	CA	HIS	D	270	21.846	121.670	83.766	1.00 1	8.05	С
ATOM	12221	CB	HIS	D	270	21.771	122.211	85.198	1.00 1	8 27	С
ATOM	12224	CG			270		122.777				0
								85.689	1.00 1		С
MOTA	12225	ND1	HIS	D	270	23.591	123.949	85.199	1.00 2	1.95	N
MOTA	12227	CE1	HIS	D	270		124.191	85.798	1.00 2		Ċ
ATOM	12229		HIS				123.223	86.664	1.00 2	1.99	N
ATOM	12231	CD2	HIS	D	270	23.941	122.322	86.610	1.00 2	1.49	C
MOTA	12233	С			270		120.815	83.569	1.00 1		Ğ
											С
MOTA	12234	0	HIS	D	270	24.135	121.307	83.066	1.00 1	7.56	0
ATOM	12235	N	PHE	D	271	23.075	119.546	83.959	1.00 1	7.53	N
ATOM	12237	CA			271		118.640				
								83.727	1.00 1		С
ATOM	12239	CB	$_{\mathrm{PHE}}$	D	271	24.053	117.315	84.477	1.00 1	7.68	С
ATOM	12242	CG	PHE	D	271	24.873	117.217	85.731	1.00 1		C
ATOM	12243		PHE								<u> </u>
							118.009	86.823	1.00 1		С
MOTA	12245	CEI	PHE	D	271	25.339	117.902	87.997	1.00 2	0.35	С
ATOM	12247	CZ	PHE	D	271	26 364	116.992	88.092	1.00 2		Č
MOTA	12249		PHE				116.183	87.019	1.00 2	0.74	С
ATOM	12251	CD2	PHE	D	271	25.898	116.292	85.837	1.00 2	0.72	С
MOTA	12253	С	PHE	n	271		118.341	82.244	1.00 1		č
ATOM											C
	12254	0			271		118.324	81.764	1.00 1	7.01	0
MOTA	12255	N	THR	D	272	23.289	118.097	81.517	1.00 1	6.93	N
ATOM	12257	CA			272		117.786	80.092			
									1.00 1		С
MOTA	12259	CB			272		117.262	79.459	1.00 1	6.45	С
MOTA	12261	OG1	THR	D	272	21.036	118.214	79.635	1.00 1		0
MOTA	12263	CG2			272		115.996				
								80.145	1.00 1		С
ATOM	12267	С	THR	D	272	23.867	119.001	79.326	1.00 1	6.57	С
ATOM	12268	0	THR	D	272		118.851	78.324	1.00 1		Ō
MOTA	12269	N			273		120.198				
								79.801	1.00 1		N
ATOM	12271	CA	GLÜ	D	273	23.917	121.417	79.103	1.00 1	6.38	С
ATOM	12273	CB			273		122.612	79.561	1.00 1		Č
ATOM	12276	CG									
					273		122.628	79.000	1.00 1		С
ATOM	_12279_	_CD_	<u>_GLU</u>	_ <u>D</u>	273	<u> </u>	123.645	79.687	1.00 1	6.15	С
									······································		···

ATOM	12280		GLU			21	.252	124.749	79.990	1.00	16.02	
ATOM	12281	OE2	GLU			19	.582	123.346	79.921	1.00	15.92	
MOTA	12282	C.	GLU					121.677	79.250		16.46	
MOTA	12283	0	GLU					122.023	78.272	1.00	17.15	
ATOM	12284	N	LEU					121.480	80.436	1.00	16.45	
ATOM	12286	CA	LEU					121.498	80.585	1.00	16.47	
MOTA	12288	CB	LEU					121.175	82.014	1.00	16.45	
MOTA	12291	CG	LEU					122.146	83.131	1.00	17.83	
ATOM	12293	CD1	LEU			28	.034	121.599	84.438	1.00	18.43	
ATOM	12297	CD2	LEU					123.531	82.890		18.95	
ATOM	12301	C	LEU					120.488	79.658	1.00	16:34	
ATOM.	12302	0	LEU					120.821	78.917	1.00	16.64	
ATOM	12303	N	ALA					119.244	79.720	1.00	16.06	
ATOM	12305	CA	ALA					118.196	78.827	1.00	15.87	
MOTA	12307	CB	ALA			27	.343	116.937	79.055	1.00	15.82	
MOTA	12311	C .	ALA					118.586	77.336	1.00	15.73	
ATOM	12312	0			275	28	. 977	118.147	76.585	1.00	15.15	
MOTA	12313	N			276	27	.139	119.397	76.924	1.00	15.76	
MOTA	12315	CA			276				75.523	1.00	15.90	
ATOM	12317	СВ			276	25	.584	120.473	75.249	1.00	15.67	
ATOM	12319	CG1	ILE					119.400	74.955		14.78	
MOTA	12322	CD1	ILE					119.832	75.206	1.00	13.45	
MOTA	12326	CG2	ILE					121.438	74.066	1.00	15.58	
ATOM	12330		LLE					120.799	75.177		16.67	
MOTA	12331	0	ILE					120.702	74.126	1.00	16.45	
ATOM	12332	N	ILE					121.758	76.067		17.62	
ATOM	12334	CA	ILE					122.661	75.960		18.37	
ATOM	12336	CB			277			123.635	77.180	1.00	18.49	
ATOM	12338	CG1	ILE					124.842	76.952		17.80	
ATOM	12341	CD1	ILE					125.500	78.222		17.69	
ATOM	12345	CG2	ILE					124.099	77.457		18.88	
ATOM	12349	C	ILE					121.860	75.859		18.96	
ATOM	12350	0			277			122.169	75.026	1.00	19.51	
ATOM	12351	N	SER					120.845	76.698		19.34	
ATOM	12353	CA	SEŖ					120.061	76.639		19.82	
ATOM	12355	CB	SER					118.950	77.690		19.87	
ATOM	12358	OG	SER					119.456	78.931		20.32	
ATOM	12360	C	SER					119.441	75.268		20.11	
ATOM	12361	0	SER					119.453	74.731		20.21	
ATOM	12362	N	VAL					118.894	74.723		20.55	
ATOM ATOM	12364	CA	VAL					118.140	73.476		21.04	
ATOM	12366 12368	CB CG1	VAL			29.	945	117.520	73.142		21.27	
ATOM	12372		VAL VAL					117.021	71.695		21.43	
ATOM	12376	C	VAL					116.394	74.083		21.87	
ATOM	12377	Ö						119.042	72.341		21.16	
ATOM	12378	N	VAL GLN					118.620	71.457		21.05	
ATOM	12380	CA	GLN					120.278 121.265	72.375		21.62	
ATOM	12382	CB	GLN					122.415	71.344		22.33	
ATOM	12385	CG	GLN					123.835	71.428		22.48	
ATOM	12388	CD	GLN	מ	280			124.844	71.198		24.61	
ATOM	12389		GLN	ח	280			125.353	72.270		26.80	
ATOM	12390		GLN					125.143	72.230		27.38	
ATOM	12393	C	GLN					121.735	73.220		26.29	
ATOM	12394	ŏ	GLN					121.733	71.465		22.39	
ATOM	12395	N	GLU	ח	281			121.917	70.454		22.31	
ATOM	12397	CA	GLU					122.230	72.708 73.038		22.30	
ATOM	12399	CB	GLU					122.230			22.00	
ATOM	12402	CG	GLU					123.780	74.575 75.148		21.87	
ATOM	12405	CD	GLU					123.760	75.148 76.670		21.96	
ATOM	12406		GLU	D	281			122.911	77.312		22.51 24.35	
				_					11.312	1.00	24.33	

ATOM 12408 C GLU D 281 35.877 121.174 72.523 1.00 21.82 C GLU D 281 37.006 121.501 72.122 1.00 21.34 O ATOM 12410 N ILE D 282 35.453 119.913 72.576 1.00 21.79 N ATOM 12414 CB ILE D 282 35.453 119.913 72.576 1.00 21.79 N ATOM 12414 CB ILE D 282 35.759 117.461 72.747 1.00 21.99 C ATOM 12414 CGI ILE D 282 35.959 117.470 74.259 1.00 22.01 C ATOM 12419 CDI ILE D 282 34.986 116.570 74.979 1.00 23.27 C ATOM 12419 CDI ILE D 282 34.986 116.570 74.979 1.00 23.27 C ATOM 12427 CC ILE D 282 36.494 116.248 72.121 1.00 20.81 C ATOM 12428 O ILE D 282 36.494 118.378 70.645 1.00 22.12 C ATOM 12429 N VAL D 283 35.295 119.088 69.951 1.00 22.217 N ATOM 12429 N VAL D 283 35.297 119.088 69.951 1.00 22.277 C ATOM 12429 O ILE D 282 37.413 118.378 70.622 1.00 22.28 C ATOM 12429 N VAL D 283 35.297 119.088 69.951 1.00 22.270 C ATOM 12429 C GLU D 283 35.297 119.088 69.951 1.00 22.270 C ATOM 12433 CB VAL D 283 33.956 119.655 66.495 1.00 22.77 C ATOM 12435 CGI VAL D 283 33.956 119.655 66.495 1.00 22.77 C ATOM 12435 CGI VAL D 283 33.956 119.655 66.495 1.00 22.57 C ATOM 12443 C VAL D 283 33.956 119.655 66.495 1.00 22.97 C ATOM 12443 C VAL D 283 33.956 119.655 66.495 1.00 22.97 C ATOM 12444 C VAL D 283 33.956 119.655 66.495 1.00 22.97 C ATOM 12444 C VAL D 283 33.956 119.865 69.951 1.00 22.61 C ATOM 12445 C VAL D 283 33.956 119.865 69.951 1.00 22.66 N ATOM 12445 C VAL D 283 33.956 129.868 69.951 1.00 22.66 N ATOM 12445 C VAL D 283 33.956 129.868 69.951 1.00 22.66 N ATOM 12445 C VAL D 283 35.297 119.865 69.951 1.00 22.66 N ATOM 12445 C VAL D 283 36.698 121.392 68.251 1.00 22.66 N ATOM 12445 C VAL D 283 36.951 129.865 69.952 1.00 22.97 C C ATOM 12445 C VAL D 283 36.953 129.868 69.322 1.00 22.97 C C ATOM 12445 C VAL D 283 36.953 129.888 121.392 68.225 1.00 22.66 N ATOM 12465 C D ASP D 284 36.953 122.498 69.322 1.00 22.97 C C ATOM 12465 C D ASP D 284 36.953 122.498 69.322 1.00 22.97 C C ATOM 12465 C D ASP D 284 35.393 122.478 69.322 1.00 22.50 C ATOM 12465 C D ASP D 284 35.393 122.478 69.325 1.00 22.50 C ATOM 12465 C D ASP D 284 35.393 122.494 69.32	ATOM	12407	OE2	GLU	D	281	34.597	124.871	77.242	1.00 22.76		0
ATOM 12409 O GLU D 281 37.006 121.501 72.122 1.00 21.34 O ATOM 12410 N ILE D 282 35.453 119.913 72.576 1.00 21.79 N ATOM 12414 CB ILE D 282 35.745 119.913 72.576 1.00 21.79 N ATOM 12414 CB ILE D 282 35.772 117.461 72.747 1.00 21.99 C ATOM 12419 CD1 ILE D 282 35.7959 117.470 74.259 1.00 22.50 C ATOM 12419 CD1 ILE D 282 35.959 117.470 74.259 1.00 22.50 C ATOM 12429 N ALD 282 36.366 116.570 74.979 1.00 23.27 C ATOM 12428 O ILE D 282 36.366 118.734 70.645 1.00 22.12 C ATOM 12429 N ALD 283 35.297 119.068 69.951 1.00 22.28 O ATOM 12429 N ALD 283 35.297 119.068 69.951 1.00 22.17 N ATOM 12431 CB VAIL D 283 35.297 119.088 68.499 1.00 22.70 C ATOM 12433 CB VAIL D 283 33.956 119.605 66.435 1.00 22.70 C ATOM 12430 CG VAIL D 283 33.956 119.605 66.435 1.00 22.70 C ATOM 12430 CG VAIL D 283 33.956 119.605 66.435 1.00 22.96 C ATOM 12443 C VAIL D 283 33.956 119.605 66.435 1.00 22.96 C ATOM 12443 C VAIL D 283 33.956 119.605 66.435 1.00 22.97 C ATOM 12444 N AGP D 284 36.283 119.307 67.897 1.00 22.96 C ATOM 12445 N AGP D 284 36.283 121.3926 66.002 1.00 22.62 D ATOM 12445 N AGP D 284 36.633 123.736 68.025 1.00 22.62 D ATOM 12445 N AGP D 284 36.633 123.736 68.025 1.00 22.62 D ATOM 12455 CD ASP D 284 35.035 125.488 69.322 1.00 22.62 C ATOM 12455 CD ASP D 284 35.339 124.424 68.740 1.00 23.36 C ATOM 12457 N PIED 285 38.719 121.573 68.406 1.00 22.07 C ATOM 12456 CA PIED 285 40.040 121.392 69.351 1.00 22.07 C ATOM 12456 C ASP D 284 35.035 125.488 69.322 1.00 22.02 C ATOM 12457 N PIED 285 40.040 121.392 68.932 1.00 22.02 C ATOM 12457 N PIED 285 40.040 121.392 68.303 1.00 22.02 C ATOM 12457 N PIED 285 40.040 121.392 68.303 1.00 22.02 C ATOM 12457 N PIED 285 40.040 121.392 68.203 1.00 22.02 C ATOM 12457 N PIED 285 40.040 121.392 68.203 1.00 22.02 C ATOM 12457 N PIED 285 40.040 121.392 68.203 1.00 22.02 C ATOM 12457 N PIED 285 40.040 121.392 68.203 1.00 22.57 C ATOM 12457 N PIED 285 40.040 121.393 68.203 1.00 22.57 C ATOM 12457 N PIED 285 40.040 121.393 68.203 1.00 22.57 C ATOM 12457 N PIED 285 40.040 121.393 68.203 1.00 22.57 C ATOM 12457 C										1.00 21.82		
ATOM 12412 CA LLE D 282 36,289 118,800 72,159 1.00 22,01 C ATOM 12414 CB LLE D 282 35,772 117,461 72,747 1.00 21,99 C ATOM 12416 CG LLE D 282 35,772 117,461 74,759 1.00 22,50 C ATOM 12419 CD LLE D 282 34,986 116,570 74,979 1.00 22,50 C ATOM 12427 C LLE D 282 36,366 116,570 74,979 1.00 22,50 C ATOM 12427 C LLE D 282 36,366 116,570 74,979 1.00 22,50 C ATOM 12427 C LLE D 282 36,366 118,734 70,645 1.00 22,12 C ATOM 12428 O LLE D 282 36,366 118,734 70,645 1.00 22,12 C ATOM 12429 N VAIL D 283 35,282 119,068 68,951 1.00 22,70 C ATOM 12431 CA VAIL D 283 33,956 119,065 66,436 1.00 22,96 C ATOM 12433 CB VAIL D 283 33,956 119,065 66,436 1.00 22,97 C ATOM 12433 CB VAIL D 283 33,956 119,065 66,436 1.00 22,97 C ATOM 12443 C VAIL D 283 36,283 120,163 68,037 1.00 22,61 C ATOM 12444 C VAIL D 283 36,283 120,163 68,037 1.00 22,66 N ATOM 12447 CA ASP D 284 36,959 122,533 68,151 1.00 22,97 C ATOM 12447 CA ASP D 284 36,959 122,533 68,151 1.00 22,97 C ATOM 12445 CB ASP D 284 36,959 122,533 68,151 1.00 22,97 C ATOM 12455 CA ASP D 284 36,939 124,124 68,740 1.00 22,97 C ATOM 12456 CA ASP D 284 35,339 124,124 68,740 1.00 22,97 C ATOM 12456 CA ASP D 284 35,339 124,124 68,740 1.00 22,97 C ATOM 12456 CA ASP D 284 35,339 124,124 68,740 1.00 22,240 C ATOM 12456 CA ASP D 284 38,412 122,175 68,406 1.00 22,40 C ATOM 12457 CA ASP D 284 38,412 122,175 68,406 1.00 22,40 C ATOM 12457 CA ASP D 285 41,437 119,970 69,536 1.00 22,24 C ATOM 12456 CA ASP D 285 41,437 119,9												
ATOM 12414 CB ILE D 282 35.792 117.461 72.747 1.00 21.99 C ATOM 12419 CD1 ILE D 282 35.995 117.470 74.299 1.00 23.27 C ATOM 12419 CD1 ILE D 282 36.494 116.288 72.121 1.00 20.50 C ATOM 12423 GC2 ILE D 282 36.494 116.288 72.121 1.00 20.81 C ATOM 12428 O ILE D 282 36.494 116.288 72.121 1.00 20.81 C ATOM 12428 O ILE D 282 36.494 116.288 72.121 1.00 20.81 C ATOM 12428 O ILE D 282 36.494 116.288 70.122 1.00 22.28 O ATOM 12428 O ILE D 282 37.413 118.378 70.122 1.00 22.28 O ATOM 12429 N VAL D 283 35.292 119.068 69.951 1.00 22.17 N ATOM 12431 CA VAL D 283 35.292 119.068 69.951 1.00 22.17 N ATOM 12433 CB VAL D 283 33.883 119.307 67.897 1.00 22.96 C ATOM 12435 CG1 VAL D 283 33.940 118.045 68.062 1.00 24.38 C ATOM 12435 CG1 VAL D 283 33.940 118.045 68.062 1.00 24.38 C ATOM 12444 C VAL D 283 33.040 118.045 68.062 1.00 24.38 C ATOM 12444 C VAL D 283 37.210 119.865 67.295 1.00 22.62 O ATOM 12444 C VAL D 283 37.210 119.865 67.295 1.00 22.62 O ATOM 12447 CA ASP D 284 36.959 122.533 68.215 1.00 22.60 N ATOM 12447 CA ASP D 284 36.959 122.533 68.215 1.00 22.70 C ATOM 12449 CA ASP D 284 36.959 122.533 68.215 1.00 22.70 C ATOM 12445 O ASP D 284 36.959 122.533 68.215 1.00 22.70 C ATOM 12452 CG ASP D 284 36.959 122.533 68.215 1.00 22.70 C ATOM 12457 O ASP D 284 36.959 122.533 68.215 1.00 22.70 C ATOM 12457 O ASP D 284 36.959 122.533 68.215 1.00 22.70 C ATOM 12457 O ASP D 284 36.959 122.533 68.10 1.00 22.70 C ATOM 12457 O ASP D 284 36.959 122.533 68.10 1.00 22.70 C ATOM 12457 O ASP D 284 36.959 122.533 68.215 1.00 22.70 C ATOM 12457 O ASP D 284 36.959 122.533 68.215 1.00 22.70 C ATOM 12457 O ASP D 284 36.959 122.533 68.215 1.00 22.270 C ATOM 12457 O ASP D 284 35.339 124.424 68.740 1.00 23.36 C ATOM 12457 O ASP D 284 35.339 124.424 68.740 1.00 23.36 C ATOM 12457 O ASP D 284 35.339 124.424 68.740 1.00 23.36 C ATOM 12457 O ASP D 284 39.331 122.73 68.915 1.00 22.270 C ATOM 12457 O ASP D 284 39.331 122.73 68.915 1.00 22.20 C ATOM 12457 O ASP D 284 39.331 122.73 68.915 1.00 22.20 C ATOM 12457 O ASP D 285 44.438 122.877 1.00 22.50 C ATOM 1245	ATOM											
ATOM 12416 CG ILE D 282 34.986 116.570 74.259 1.00 22.50 C												
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ATOM 12471 CE2 PHE D 285		12433	CB	VAL	D	283						
ATOM 12471 CE2 PHE D 285	MOTA	12435										C
ATOM 12471 CE2 PHE D 285												C
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ATOM 12471 CE2 PHE D 285							34.549	123.964				0
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ATOM 12476 O PHE D 285							41.740	118.639	71.691	1.00 20.07		С
ATOM 12479 CA ALA D 286	ATOM	12475	С									С
ATOM 12479 CA ALA D 286			0									0
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ATOM	12528	CA	VAL I	289		45 220	118.544	66.510	1 00 00
ATOM	12530	CB		289		44 738	117.276	67.243	1.00 20.73
ATOM	12532		VAL I			45 885	116.238	67.403	1.00 20.79
MOTA	12536	CG2				44 120	117.651		1.00 19.29
ATOM	12540	C		289			117.051	68.609	1.00 20.99
ATOM	12541	ō		289		45.709	117.683	65.143	1.00 20.90
ATOM	12542	Ň	PRO I			47.039	117.883	64.287	1.00 20.95
ATOM	12543	CA	PRO I			47.091	110.396	64.912	1.00 20.70
ATOM	12545	CB	PRO I			47.705	118.003	63.647	1.00 20.51
ATOM	12548	CG	PRO I			49.170	118.393	63.854	1.00 20.50
ATOM	12551	CD	PRO I			49.114	119.490	64.867	1.00 20.21
ATOM	12554	C	PRO I				119.071	65.795	1.00 20.24
ATOM	12555	ŏ	PRO I				116.501	63.361	1.00 21.20
ATOM	12556	N	GLY I			47.848		64.219	1.00 20.62
ATOM	12558	CA	GLY I				116.169	62.171	1.00 22.22
ATOM	12561	C	GLY I				114.792	61.762	1.00 22.96
ATOM	12562	Ö	GLY I					61.588	1.00 23.80
ATOM	12563	N				44.927		60.601	1.00 24.45
ATOM	12565	CA	PHE D					62.553	1.00 23.74
ATOM	12567	CB	PHE D			43.083	114.699	62.583	1.00 23.53
ATOM-	12570	CG						63.727	1.00 23.16
ATOM	12571			292			115.012	64.091	1.00 21.53
ATOM	12573	CE1		292	•	40.955	113.843	64.802	1.00 22.59
ATOM	12575	CZ				39.709	113.365	65.109	1.00 23.64
ATOM	12577	CE2		292			114.057	64.686	1.00 22.30
ATOM	12579	CD2		292		38.734		63.973	1.00 21.89
ATOM	12579	CDZ				39.989	115.678	63.677	1.00 21.09
ATOM	12582	0		292		42.343	114.989	61.252	1.00 24.42
ATOM	12583		PHE D			41.609	114.121	60.744	1.00 23.56
ATOM	12585	N CA	LEU D				116.193	60.697	1.00 25.57
ATOM	12587	CB	LEU D	293		41.798	116.611	59.489	1.00 26.53
ATOM	12590	CG	TEO D	293	-		118.146	59.358	1.00 26.83
ATOM	12590		LEU D	293		41.021		60.490	1.00 28.44
ATOM	12596		LEU D			41.363		60.419	1.00 29.31
ATOM	12600	CDZ	TEO D			39.489	118.773	60.545	1.00 28.73
ATOM	12601	0	LEU D			42.361	115.993	58.202	1.00 26.86
ATOM	12602	И				41.711	116.044	57.165	1.00 26.99
ATOM	12604	CA	GLN D			43.553		58.277	1.00 27.57
ATOM	12604	CB				44.088	114.555	57.195	1.00 28.18
ATOM	12609	CG	GLN D			45.650	114.549	57.221	1.00 29.08
ATOM	12612	CD	GLN D			46.375	113.374	57.995	1.00 29.83
ATOM	12613		GLN D				113.628	58.254	1.00 31.21
ATOM	12614	NE2				48.653	112.690	58.434	1.00 35.09
ATOM	12617	C	GLN D			48.277	114.878	58.300	1.00 31.40
ATOM	12618	Ö	GLN D			43.520	113.100	57.194	1.00 27.84
ATOM	12619	N					112.296	56.330	1.00 27.73
ATOM	12621	CA	LEU D				112.773	58.161	1.00 27.04
ATOM	12623	CB	LEU D			41.918	111.509	58.187	1.00 25.66
ATOM	12626	CG	LEU D			41.611	111.090	59.633	1.00 25.33
ATOM	12628		LEU D	293		42.789	110.608	60.478	1.00 23.90
ATOM	12632	CD3	LEU D	295		42.330	110.230	61.882	1.00 22.76
ATOM	12636	CDZ	TEO D				109.447	59.805	1.00 22.45
ATOM	12637	0	LEU D	233 205			111.676	57.409	1.00 25.12
ATOM	12638	N					112.781	57.283	1.00 24.36
ATOM	12640	CA	GLY D			40.078	110.571	56.912	1.00 24.98
ATOM	12643	CA	GLY D	296			110.591	56.251	1.00 25.23
ATOM	12644	0	GLY D				111.063	57.188	1.00 25.63
ATOM	12645	Ŋ	GLY D ARG D				110.926	58.383	1.00 26.10
ATOM	12647	CA	ARG D				111.620	56.665	1.00 26.28
ATOM	12649	CB	ARG D	221		35.548		57.527	1.00 26.54
ATOM	12652	CG	ARG D				112.786	56.700	1.00 26.90
		-3	יייים ח	471		33.485	113.682	57.498	1.00 29.64

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ATOM 12676 CG CLUD 298 33.086 106.639 57.739 1.00 28.91 CG ATOM 12690 ODL DLUD 298 32.357 106.757 56.448 1.00 32.85 CG ATOM 12681 ODL DLUD 298 31.774 107.844 56.148 1.00 35.69 ODL DLUD 298 34.507 108.436 59.925 1.00 24.94 ODL DLUD 298 37.321 107.756 60.374 1.00 22.37 ODL DLUD 298 37.321 107.756 60.374 1.00 22.37 ODL DLUD 299 37.321 107.756 60.374 1.00 22.35 ODL DLUD 299 37.825 105.618 60.008 1.00 22.19 ODL DLUD 299 37.825 105.618 60.008 1.00 22.19 ODL DLUD 299 37.825 105.618 60.008 1.00 22.19 ODL DLUD 29.9 ATOM 12694 C ASP D 299 37.537 108.919 63.058 1.00 22.19 ODL DLUD 29.9 ATOM 12695 O ASP D 299 37.537 108.919 63.058 1.00 21.49 ODL DLUD 29.9 ATOM 12696 N GLN D 300 37.217 111.550 62.326 1.00 20.93 ODL DLUD 29.9 ATOM 12700 CB GLN D 300 37.217 111.550 62.326 1.00 20.93 ODL DLUD 29.9 ATOM 12700 CB GLN D 300 37.217 111.550 60.738 1.00 21.23 ODL DLUD 29.9 ATOM 12700 CB GLN D 300 38.286 113.275 60.758 1.00 21.23 ODL DLUD 29.9 ATOM 12700 CB GLN D 300 36.017 111.354 60.00 20.99 0.00 18.90 ATOM 12710 CB GLN D 300 36.017 111.354 60.00 20.99 0.00 18.90 ATOM 12710 CB GLN D 300 36.017 111.354 60.00 20.20 0.00 12.23 ATOM 12710 CB GLN D 300 36.017 111.354 60.00 20.20 0.00 12.23 ATOM 12710 CB GLN D 300 36.017 111.354 60.00 20.20 0.00 12.23 ATOM 12710 CB GLN D 300 36.017 111.354 60.00 20.20 0.00 0.00 12.23 ATOM 12710 CB GLN D 300 36.017 111.354 60.00 20.20 0.00 0.00 12.23 ATOM 12710 CB GLN D 300 36.017 111.354 60.00 20.20 0.00 0.00 12.23 ATOM 12710 CB GLN D 301 31.364 50.00 0.00 0.00 0	ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	12655 12658 12660 12661 12664 12667 12668 12669 12671 12673	NE CZ NH1 NH2 C O N CA	ARG I ARG I ARG I GLU GLU		297 297 297 297 297 297 298 298	32.206 1 31.164 1 30.052 1 29.786 1 29.191 3 34.972 3 34.630 3 34.880 3 34.324 3 34.363	114.678 114.061 112.775 114.745 111.079 111.363 109.853 108.709	56.720 57.568 58.027 57.750 58.787 58.443 59.595 57.916 58.638 57.760	1.00 33.39 1.00 36.49 1.00 39.03 1.00 39.92 1.00 39.05 1.00 26.10 1.00 25.41 1.00 25.79 1.00 25.76	C N C N N C O N C C
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ATOM 12683 O GLU D 298											C
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ATOM 12686 CA ASP D 299 37, 321 108.057 60.884 1.00 22.63 ATOM 12691 CG ASP D 299 38.857 106.328 59.985 1.00 23.42 ATOM 12691 CG ASP D 299 37.825 103.618 60.008 1.00 22.19 ATOM 12692 OD1 ASP D 299 37.825 103.618 60.008 1.00 22.19 ATOM 12693 OD2 ASP D 299 39.950 105.818 59.649 1.00 27.24 OD ATOM 12694 C ASP D 299 37.385 109.175 61.883 1.00 21.49 ATOM 12695 O ASP D 299 37.385 109.175 61.883 1.00 21.49 ATOM 12696 N GLN D 300 37.307 110.415 61.421 1.00 21.38 ATOM 12698 CA GLN D 300 37.307 110.415 61.421 1.00 21.38 ATOM 12698 CA GLN D 300 37.307 110.415 61.421 1.00 20.93 CC ATOM 12700 CB GLN D 300 37.007 110.415 61.421 1.00 20.99 ATOM 12700 CB GLN D 300 38.286 113.275 60.758 1.00 20.99 ATOM 12700 CB GLN D 300 38.286 113.275 60.758 1.00 20.99 ATOM 12706 CD GLN D 300 38.286 113.275 60.758 1.00 21.23 ATOM 12706 CD GLN D 300 38.286 113.275 60.758 1.00 21.23 ATOM 12706 CD GLN D 300 38.696 114.518 59.908 1.00 18.90 CO ATOM 12707 OEI GLN D 300 36.071 111.554 63.232 1.00 17.75 NATOM 12708 NE GLN D 300 36.071 111.554 63.232 1.00 20.70 ATOM 12712 O GLN D 300 36.017 111.354 63.232 1.00 20.70 CATOM 12712 O GLN D 300 36.017 111.354 63.232 1.00 20.70 CATOM 12712 O GLN D 300 36.083 111.596 64.438 1.00 20.60 CC ATOM 12712 O GLN D 300 36.083 111.596 64.438 1.00 20.00 20.60 CC ATOM 12712 C GLN D 301 33.645 110.807 63.342 1.00 20.75 CC ATOM 12717 CB ILE D 301 33.645 110.807 63.342 1.00 20.75 CC ATOM 12717 CB ILE D 301 33.645 110.807 63.342 1.00 20.75 CC ATOM 12717 CB ILE D 301 31.698 111.842 62.000 1.00 21.61 ATOM 12719 CGI ILE D 301 33.773 109.734 64.438 1.00 20.20.75 CC ATOM 12730 C ILE D 301 33.773 109.734 64.438 1.00 20.20.75 CC ATOM 12730 C ILE D 301 33.773 109.734 64.438 1.00 21.24 ATOM 12730 C ILE D 301 33.773 109.734 64.438 1.00 21.24 ATOM 12730 C ILE D 301 33.773 109.734 64.828 1.00 21.24 ATOM 12730 C ILE D 301 33.773 109.734 64.828 1.00 21.24 ATOM 12734 C ALAD 302 34.989 106.285 65.575 1.00 18.56 C.24 ATOM 12734 C ALAD 302 34.989 107.258 67.112 1.00 19.46 C.24 ATOM 12734 C ALAD 302 34.989 107.258 67.112 1.00 19.46 C.24 ATOM							36.415	108.311			N
ATOM 12688 CB ASP D 299 38.712 107.756 60.374 1.00 22.35 CC ATOM 12691 CG ASP D 299 37.825 105.618 60.008 1.00 22.19 ATOM 12692 OD1 ASP D 299 37.825 105.618 60.008 1.00 22.19 ATOM 12693 OD2 ASP D 299 37.825 105.618 60.008 1.00 22.19 ATOM 12695 O ASP D 299 37.385 109.175 61.883 1.00 21.89 ATOM 12695 O ASP D 299 37.385 109.175 61.883 1.00 21.89 ATOM 12696 N GLN D 300 37.307 110.415 61.421 1.00 21.38 N ATOM 12696 N GLN D 300 37.307 110.415 61.421 1.00 21.38 N ATOM 12696 N GLN D 300 37.307 110.415 61.421 1.00 21.38 N ATOM 12700 CB GLN D 300 37.044 112.846 61.538 1.00 20.93 ATOM 12700 CB GLN D 300 38.286 113.275 60.758 1.00 20.99 ATOM 12706 CD GLN D 300 38.286 113.275 60.758 1.00 20.99 ATOM 12707 OE1 GLN D 300 37.373 115.450 60.302 1.00 18.65 N ATOM 12707 OE1 GLN D 300 38.696 114.518 59.908 1.00 18.65 N ATOM 12712 O GLN D 300 36.083 111.596 64.438 1.00 20.770 N ATOM 12712 O GLN D 300 36.083 111.596 64.438 1.00 20.770 N ATOM 12713 N ILE D 301 34.911 110.922 62.62.629 1.00 20.41 N ATOM 12713 N ILE D 301 33.645 110.807 63.342 1.00 20.75 N ATOM 12717 CB ILE D 301 33.645 110.807 63.342 1.00 20.32 N ATOM 12717 CB ILE D 301 31.698 111.842 62.000 1.00 21.61 ATOM 12712 CGI ILE D 301 31.698 111.842 62.000 1.00 21.61 ATOM 12712 CGI ILE D 301 31.376 109.561 62.898 1.00 21.24 CM ATOM 12730 C ILE D 301 33.475 109.556 62.898 1.00 21.24 CM ATOM 12730 C ILE D 301 33.773 109.734 64.396 1.00 19.30 ATOM 12730 C ILE D 301 33.773 109.734 64.396 1.00 19.30 ATOM 12730 C ILE D 301 33.495 109.556 65.535 1.00 23.12 ATOM 12730 C ILE D 303 33.405 109.556 65.535 1.00 23.12 ATOM 12730 C ILE D 303 33.405 109.555 65.535 1.00 18.56 ATOM 12731 CB ALA D 302 34.989 106.285 63.975 1.00 18.64 ATOM 12732 C B ALA D 302 34.989 106.285 63.975 1.00 18.64 ATOM 12731 CB ALA D 302 35.392 107.675 66.004 1.00 18.64 ATOM 12736 CB ALA D 302 35.392 107.675 66.004 1.00 18.94 ATOM 12736 CB ALA D 302 35.392 107.675 66.004 1.00 18.94 ATOM 12736 CB ALA D 302 35.989 107.555 66.259 1.00 18.56 ATOM 12744 CA ALAD 302 35.989 107.555 66.259 1.00 18.59 ATOM 12746 CB ALAD 303 39.							37.321	108.057	60.884		C
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ATOM 12730 C ILE D 301 33.773 109.734 64.396 1.00 19.30 ATOM 12731 O ILE D 301 33.405 109.956 65.535 1.00 18.56 ATOM 12732 N ALA D 302 34.308 108.591 63.979 1.00 18.64 ATOM 12734 CA ALA D 302 34.464 107.424 64.811 1.00 18.49 ATOM 12736 CB ALA D 302 34.989 106.285 63.975 1.00 18.24 ATOM 12740 C ALA D 302 35.392 107.675 66.004 1.00 18.94 ATOM 12741 O ALA D 302 35.089 107.258 67.112 1.00 19.46 ATOM 12742 N LEU D 303 36.514 108.359 65.779 1.00 19.14 ATOM 12744 CA LEU D 303 37.488 108.638 66.827 1.00 19.01 ATOM 12746 CB LEU D 303 38.767 109.255 66.259 1.00 18.59 ATOM 12749 CG LEU D 303 39.571 108.400 65.304 1.00 18.48 ATOM 12755 CD2 LEU D 303 39.571 108.400 65.304 1.00 18.48 ATOM 12759 C LEU D 303 39.963 107.096 65.946 1.00 19.04 ATOM 12759 C LEU D 303 36.926 109.599 67.842 1.00 19.75 ATOM 12760 O LEU D 303 37.207 109.466 69.014 1.00 20.11 ATOM 12763 CA LEU D 304 36.162 110.583 67.396 1.00 20.37 ATOM 12763 CA LEU D 304 35.006 111.578 68.302 1.00 21.24 ATOM 12768 CG LEU D 304 35.000 112.794 67.533 1.00 21.60 ATOM 12768 CG LEU D 304 36.047 113.963 67.403 1.00 23.49 ATOM 12770 CD1 LEU D 304 36.599 114.368 68.770 1.00 23.75							31.376	109.561			C
ATOM 12732 N ALA D 302 34.308 108.591 63.979 1.00 18.64 ATOM 12734 CA ALA D 302 34.464 107.424 64.811 1.00 18.49 ATOM 12736 CB ALA D 302 34.989 106.285 63.975 1.00 18.24 ATOM 12740 C ALA D 302 35.392 107.675 66.004 1.00 18.94 ATOM 12741 O ALA D 302 35.089 107.258 67.112 1.00 19.46 ATOM 12742 N LEU D 303 36.514 108.359 65.779 1.00 19.14 ATOM 12744 CA LEU D 303 37.488 108.638 66.827 1.00 19.01 ATOM 12746 CB LEU D 303 38.767 109.255 66.259 1.00 18.59 ATOM 12749 CG LEU D 303 39.571 108.400 65.304 1.00 18.48 ATOM 12751 CD1 LEU D 303 39.571 108.400 65.304 1.00 18.54 ATOM 12755 CD2 LEU D 303 39.963 107.096 65.946 1.00 19.04 ATOM 12759 C LEU D 303 36.926 109.599 67.842 1.00 19.75 ATOM 12760 O LEU D 303 37.207 109.466 69.014 1.00 20.11 ATOM 12761 N LEU D 304 36.162 110.583 67.396 1.00 20.37 ATOM 12763 CA LEU D 304 35.006 111.578 68.302 1.00 21.24 ATOM 12768 CG LEU D 304 35.090 112.794 67.533 1.00 21.60 ATOM 12768 CG LEU D 304 35.090 112.794 67.533 1.00 22.91 ATOM 12770 CD1 LEU D 304 36.047 113.963 67.403 1.00 23.49 ATOM 12770 CD1 LEU D 304 36.599 114.368 68.770 1.00 23.75											C
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ATOM 12736 CB ALA D 302 34.989 106.285 63.975 1.00 18.24 ATOM 12740 C ALA D 302 35.392 107.675 66.004 1.00 18.94 ATOM 12741 O ALA D 302 35.089 107.258 67.112 1.00 19.46 ATOM 12742 N LEU D 303 36.514 108.359 65.779 1.00 19.14 ATOM 12744 CA LEU D 303 37.488 108.638 66.827 1.00 19.01 ATOM 12746 CB LEU D 303 38.767 109.255 66.259 1.00 18.59 ATOM 12749 CG LEU D 303 39.571 108.400 65.304 1.00 18.48 ATOM 12751 CD1 LEU D 303 40.776 109.135 64.828 1.00 18.54 ATOM 12755 CD2 LEU D 303 39.963 107.096 65.946 1.00 19.04 ATOM 12759 C LEU D 303 36.926 109.599 67.842 1.00 19.75 ATOM 12760 O LEU D 303 37.207 109.466 69.014 1.00 20.11 ATOM 12761 N LEU D 304 36.162 110.583 67.396 1.00 20.37 ATOM 12763 CA LEU D 304 35.606 111.578 68.302 1.00 21.24 ATOM 12768 CG LEU D 304 35.090 112.794 67.533 1.00 21.60 ATOM 12770 CD1 LEU D 304 36.599 114.368 68.770 1.00 23.49 ATOM 12774 CD2 LEU D 304 36.599 114.368 68.770 1.00 23.75							34.300	100.331			C
ATOM 12740 C ALA D 302 35.392 107.675 66.004 1.00 18.94 ATOM 12741 O ALA D 302 35.089 107.258 67.112 1.00 19.46 ATOM 12742 N LEU D 303 36.514 108.359 65.779 1.00 19.14 ATOM 12744 CA LEU D 303 37.488 108.638 66.827 1.00 19.01 ATOM 12746 CB LEU D 303 38.767 109.255 66.259 1.00 18.59 ATOM 12749 CG LEU D 303 39.571 108.400 65.304 1.00 18.48 ATOM 12751 CD1 LEU D 303 40.776 109.135 64.828 1.00 18.54 ATOM 12755 CD2 LEU D 303 39.963 107.096 65.946 1.00 19.04 ATOM 12759 C LEU D 303 36.926 109.599 67.842 1.00 19.75 ATOM 12760 O LEU D 303 37.207 109.466 69.014 1.00 20.11 ATOM 12761 N LEU D 304 36.162 110.583 67.396 1.00 20.37 ATOM 12763 CA LEU D 304 35.606 111.578 68.302 1.00 21.24 ATOM 12765 CB LEU D 304 35.090 112.794 67.533 1.00 21.60 ATOM 12768 CG LEU D 304 35.090 112.794 67.533 1.00 22.91 ATOM 12770 CD1 LEU D 304 35.301 115.085 66.740 1.00 23.49 ATOM 12774 CD2 LEU D 304 36.599 114.368 68.770 1.00 23.75											С
ATOM 12741 O ALA D 302 35.089 107.258 67.112 1.00 19.46 ATOM 12742 N LEU D 303 36.514 108.359 65.779 1.00 19.14 ATOM 12744 CA LEU D 303 37.488 108.638 66.827 1.00 19.01 ATOM 12746 CB LEU D 303 38.767 109.255 66.259 1.00 18.59 ATOM 12749 CG LEU D 303 39.571 108.400 65.304 1.00 18.48 ATOM 12751 CD1 LEU D 303 40.776 109.135 64.828 1.00 18.54 ATOM 12755 CD2 LEU D 303 39.963 107.096 65.946 1.00 19.04 ATOM 12759 C LEU D 303 36.926 109.599 67.842 1.00 19.75 ATOM 12760 O LEU D 303 37.207 109.466 69.014 1.00 20.11 ATOM 12761 N LEU D 304 36.162 110.583 67.396 1.00 20.37 ATOM 12763 CA LEU D 304 35.606 111.578 68.302 1.00 21.24 ATOM 12765 CB LEU D 304 35.090 112.794 67.533 1.00 21.60 ATOM 12768 CG LEU D 304 36.047 113.963 67.403 1.00 22.91 ATOM 12770 CD1 LEU D 304 36.599 114.368 68.770 1.00 23.49 ATOM 12774 CD2 LEU D 304 36.599 114.368 68.770 1.00 23.75							35.392	107.675	66.004		C
ATOM 12744 CA LEU D 303 37.488 108.638 66.827 1.00 19.01 ATOM 12746 CB LEU D 303 38.767 109.255 66.259 1.00 18.59 ATOM 12749 CG LEU D 303 39.571 108.400 65.304 1.00 18.48 ATOM 12751 CD1 LEU D 303 40.776 109.135 64.828 1.00 18.54 ATOM 12755 CD2 LEU D 303 39.963 107.096 65.946 1.00 19.04 ATOM 12759 C LEU D 303 36.926 109.599 67.842 1.00 19.75 ATOM 12760 O LEU D 303 37.207 109.466 69.014 1.00 20.11 ATOM 12761 N LEU D 304 36.162 110.583 67.396 1.00 20.37 ATOM 12763 CA LEU D 304 35.606 111.578 68.302 1.00 21.24 ATOM 12765 CB LEU D 304 35.090 112.794 67.533 1.00 21.60 ATOM 12768 CG LEU D 304 36.047 113.963 67.403 1.00 22.91 ATOM 12770 CD1 LEU D 304 36.599 114.368 68.770 1.00 23.49 ATOM 12774 CD2 LEU D 304 36.599 114.368 68.770 1.00 23.75			0	ALA	D	302					0
ATOM 12746 CB LEU D 303											N C
ATOM 12749 CG LEU D 303											C
ATOM 12751 CD1 LEU D 303											č
ATOM 12755 CD2 LEU D 303 39.963 107.096 65.946 1.00 19.04 ATOM 12759 C LEU D 303 36.926 109.599 67.842 1.00 19.75 ATOM 12760 O LEU D 303 37.207 109.466 69.014 1.00 20.11 ATOM 12761 N LEU D 304 36.162 110.583 67.396 1.00 20.37 ATOM 12763 CA LEU D 304 35.606 111.578 68.302 1.00 21.24 ATOM 12765 CB LEU D 304 35.090 112.794 67.533 1.00 21.60 ATOM 12768 CG LEU D 304 36.047 113.963 67.403 1.00 22.91 ATOM 12770 CD1 LEU D 304 35.301 115.085 66.740 1.00 23.49 ATOM 12774 CD2 LEU D 304 36.599 114.368 68.770 1.00 23.75											С
ATOM 12759 C LEU D 303 36.926 109.599 67.842 1.00 19.75 ATOM 12760 O LEU D 303 37.207 109.466 69.014 1.00 20.11 ATOM 12761 N LEU D 304 36.162 110.583 67.396 1.00 20.37 ATOM 12763 CA LEU D 304 35.606 111.578 68.302 1.00 21.24 ATOM 12765 CB LEU D 304 35.090 112.794 67.533 1.00 21.60 ATOM 12768 CG LEU D 304 36.047 113.963 67.403 1.00 22.91 ATOM 12770 CD1 LEU D 304 35.301 115.085 66.740 1.00 23.49 ATOM 12774 CD2 LEU D 304 36.599 114.368 68.770 1.00 23.75			CD2	LEU	D	303					Ç
ATOM 12761 N LEU D 304 36.162 110.583 67.396 1.00 20.37 ATOM 12763 CA LEU D 304 35.606 111.578 68.302 1.00 21.24 ATOM 12765 CB LEU D 304 35.090 112.794 67.533 1.00 21.60 ATOM 12768 CG LEU D 304 36.047 113.963 67.403 1.00 22.91 ATOM 12770 CD1 LEU D 304 35.301 115.085 66.740 1.00 23.49 ATOM 12774 CD2 LEU D 304 36.599 114.368 68.770 1.00 23.75	MOTA		С								C
ATOM 12763 CA LEU D 304 35.606 111.578 68.302 1.00 21.24 ATOM 12765 CB LEU D 304 35.090 112.794 67.533 1.00 21.60 ATOM 12768 CG LEU D 304 36.047 113.963 67.403 1.00 22.91 ATOM 12770 CD1 LEU D 304 35.301 115.085 66.740 1.00 23.49 ATOM 12774 CD2 LEU D 304 36.599 114.368 68.770 1.00 23.75											О N
ATOM 12765 CB LEU D 304 35.090 112.794 67.533 1.00 21.60 ATOM 12768 CG LEU D 304 36.047 113.963 67.403 1.00 22.91 ATOM 12770 CD1 LEU D 304 35.301 115.085 66.740 1.00 23.49 ATOM 12774 CD2 LEU D 304 36.599 114.368 68.770 1.00 23.75											C
ATOM 12768 CG LEU D 304 36.047 113.963 67.403 1.00 22.91 ATOM 12770 CD1 LEU D 304 35.301 115.085 66.740 1.00 23.49 ATOM 12774 CD2 LEU D 304 36.599 114.368 68.770 1.00 23.75											C
ATOM 12770 CD1 LEU D 304 35.301 115.085 66.740 1.00 23.49 ATOM 12774 CD2 LEU D 304 36.599 114.368 68.770 1.00 23.75							36.047	113.963		1.00 22.91	C
ATOM 12774 CD2 LEU D 304 36.599 114.368 68.770 1.00 23.75			CD1	LEU	D	304	35.301	115.085			C
ATOM 12778 C LEU D 304 34.450 111.005 69.082 1.00 21.38											C
	ATOM	12778	C	LEU	D	304	34.450	111.005	09.082	1.00 21.38	

MOTA	12779		LEU				34.229		70.230	1.00 21.9		•	0
MOTA	12780		LYS				33.690			1.00 21.5			N
MOTA	12782		LYS				32.502		69.064	1.00 22.1			, C
MOTA	12784		LYS				31.758		68.078 ⁻	1.00 22.5		•	C
ATOM	12787		LYS				30.328		68.468 67.266	1.00 24.9 1.00 27.5			· C
MOTA	12790		LYS LYS				29.521 28.563		67.654	1.00 27.3			C
ATOM ATOM	12793 12796		LYS				27.205		67.902	1.00 30.8			. N
ATOM	12800		LYS					108.768	70.288	1.00 21.7			C
ATOM	12801	· ŏ	LYS					108.868	71.324	1.00 22.0			0
MOTA	12802		ALA					108.022	70.160	1.00 21.1	8		N
MOTA	12804	CA	ALA				34.567	107.235	71.239	1.00 20.9	0		· C
ATOM	12806	CB	ALA	D	306			106.256	70.663	1.00 20.8			., C
MOTA	12810	С	ALA					108.088	72.286	1.00 21.3			C
MOTA	12811	0	ALA					107.824	73.476	1.00 21.0			0
MOTA	12812	N	SER					109.098	71.824	1.00 21.9			N
MOTA	12814	CA	SER			-		109.802	72.650	1.00 22.5		•	C
ATOM	12816	CB.	SER					110.563 109.880	71.787 71.824	1.00 22.6			Ö
ATOM	12819	OG C	SER SER					110.791	73.585	1.00 23.3			č
ATOM ATOM	12821 12822	0			307			111.052	74.661	1.00 22.2		•	ŏ
ATOM	12823	N			308			111.340	73.152	1.00 21.7			N
ATOM	12825	CA			308			112.457	73.819	1.00 21.3			С
ATOM	12827	CB			308			112.742	73.087	1.00 21.4			C
MOTA	12829	OG1	THR					113.275	71.802	1.00 21.0			0
MOTA	12831	CG2			308			113.843	73.775	1.00 21.8			C
MOTA	12835	C			308,	•		112.248	75.304	1.00 21.1			C
MOTA	12836	0			308			113.058	76.126 75.669	1.00 21.2			O N
MOTA	12837	N			309 309			111.162 110.900	77.087	1.00 20.2			C
MOTA MOTA	12839 12841	CA CB			309	•		109.705	77.301	1.00 20.1			č
ATOM	12843	CG1			309			109.627	78.769	1.00 20.4			. Č
ATOM	12846		ILE					110.861	79.247	1.00 20.8		•	
ATOM	12850	CG2	ILE	D	309		33.208	108.413	76.873	1.00 20.0	07		0 0 0
ATOM	12854	С			309			110.692	77.837	1.00 20.0			
MOTA	12855	0	ILE					111.020	79.042	1.00 20.4			.0
MOTA	12856	N			310			110.128	77.157	1.00 18.9			И С
ATOM	12858	CA CB	GLU		310 310			109.860 108.893	77.804 76.977	1.00 18.4			C
ATOM ATOM	12860 12863	CG			310			107.662	76.506	1.00 17.0			C
ATOM	12866	CD			.310			106.432	76.138	1.00 16.			C C C
ATOM	12867				310			106.441	76.130	1.00 17.			0
ATOM	12868				310			105.427	75.831	1.00 14.			0
MOTA	12869	С	GLU	D	310			111.189	78.103	1.00 17.			C
MOTA	12870	0			310	•		111.363	79.139	1.00 17.	21		0
MOTA	12871	N	ILE	D	311			112.133	77.188	1.00 17.			Ŋ
ATOM	12873	CA			311			113.445	77.287	1.00 18.			Ċ
MOTA	12875 12877	CB CC1			311 311			114.184 113.548	75.891 74.950	1.00 17. 1.00 18.			C
MOTA MOTA	12880				311			114.008	73.462	1.00 18.			Č
ATOM	12884				311			115.690	76.033	1.00 16.			č
ATOM	12888	Ċ			311			114.257	78.390	1.00 17.			C
MOTA	12889	0			311			114.914	79.170	1.00 17.	48		0
MOTA	12890	N			312			114.203	78.434	1.00 18.			N
ATOM	12892	CA			312			114.829	79.497	1.00 18.			C
MOTA	12894	CB			312			114.537	79.279	1.00 18.			C
MOTA	12897	CG SD			312			115.223 114.482	78.107 77.692	1.00 19. 1.00 21.			S
ATOM ATOM	12900 12901	CE			312			115.688	78.243	1.00 21.			Č
ATOM	12905	C			312			114.286	80.874	1.00 18.			Ċ
ATOM		Ö			312			114.994	81.877	1.00 18.			. 0

ATOM	12907	N	T.FIT	Ъ	313	26 154	112 00		006			
ATOM	12909	CA			313		113.00		.896		18.57	N
ATOM	12911	CB					112.32		.098		19.20	С
ATOM	12911				313		110.82		.795		19.54	С
		CG			313	35.268	110.10		. 922	1.00	19.89	С
ATOM	12916		LEU				108.73		.246		21.07	С
MOTA	12920		LEU				109.97		.398	1.00	19.05	C
ATOM	12924	С			313		112.83		.567		19.34	č
ATOM	12925	0			313	38.080	113.03	8 83	.746		19.32	ŏ
ATOM	12926	N			314	38.737	112.98		. 608		19.77	И
ATOM	12928	CA	LEU	D	314	40.102	113.41		.842		20.55	C
ATOM	12930	CB	LEU	D	314		113.30		.522		20.62	C
ATOM	12933	CG			314		112.70		.428	1 00	21.87	2
ATOM	12935	CD1	LEU	D	314		111.63		.404		22.40	C
ATOM	12939	CD2	LEU	D	314		112.17		.014		23.96	C
ATOM	12943	С			314		114.85		.333			C
ATOM	12944	Ö			314		115.22				20.82	C
ATOM	12945	Ň			315	20.030	115.22		.202		20.41	0
ATOM	12947	CA			315				.740	1.00	21.66	N
ATOM	12949	CB			315		117.08		.029		21.96	С
ATOM	12952	CG				38.301	117.78		.892		22.44	С
ATOM	12955				315		118.05		. 651		25.65	С
		CD	GLU	ט	315		119.08		.890		29.69	C
ATOM	12956		GLU				120.14		.471		32.41	0
ATOM	12957	OE2			315	41.434	118.83		.511	1.00	30.62	0
ATOM	12958	C			315	38.318	117.27	1 83.	.338	1.00	21.05	С
MOTA	12959	0			315		118.26		.046	1.00	21.15	0
MOTA	12960	N			316		116.31		651		19.95	N
ATOM	12962	CA			316		116.32		. 895		19.30	C
ATOM	12964	CB			316	35.616	115.21	1 84.	.871		18.81	č
ATOM	12966	OG1	THR	D	316	34.491	115.64		.096		16.74	ŏ
MOTA	12968	CG2	THR	D	316		114.95		258		18.57	č
ATOM	12972	С	THR	D	316	37.696	116.15		052		19.52	Č
ATOM	12973	0			316		116.92		042		19.17	
ATOM	12974	N	ALA				115.16		872		19.45	0
ATOM	12976	CA	ALA				114.79		842		19.58	N
ATOM	12978	CB	ALA				113.61		299		19.72	C
ATOM	12982	С	ALA				115.95		133			C
ATOM	12983	ō	ALA				116.20				19.30	С
ATOM	12984	Ñ	ARG				116.63		274		18.64	0
ATOM	12986	CA	ARG				117.74		047		19.70	N
ATOM	12988	CB	ARG			41.023	118.20		005		20.05	С
ATOM	12991	CG	ARG			41.057	119.36		552		20.24	С
ATOM	12994	CD	ARG						244		22.52	С
ATOM	12997	NE	ARG			44.090	119.69		750		24.07	С
ATOM	12999	CZ	ARG			44.023	120.54		434		25.37	N
ATOM	13000						120.58		273		27.69	С
ATOM	13003					44.284			261		29.30	N
ATOM			ARG			45.658	121.43		123		28.26	N
	13006	C	ARG			41.422	118.92		898	1.00	19.78	С
ATOM	13007	0	ARG			42.277	119.70	787.	320		18.62	Ö
ATOM	13008	N	ARG				118.99		152	1.00	20.23	N
ATOM	13010		ARG				120.07		865		20.95	Ċ
ATOM	13012	CB	ARG			38.140	120.43	1 87.	122		21.55	Č
ATOM	13015	CG	ARG			38.327	120.79	1 85.	656		24.18	č
MOTA	13018	CD	ARG			38.481	122.302	2 85.	384		28.57	č
ATOM	13021	NE	ARG			38.068	122.65	5 84.	029		31.34	N
ATOM	13023	CZ	ARG			38.648	122.190	82	929		34.77	C
ATOM	13024		ARG			39.675	121.348		992		36.10	N
MOTA	13027		ARG				122.558		745		37.68	
MOTA	13030	С	ARG			39.035	119.718		295		20.60	И
MOTA	13031	0	ARG			38.483	120.55		020		20.22	C
MOTA	13032	N	TYR			39.317	118.479		682		20.75	0
MOTA		-CA				38.916	117.94		971	1 00	20.73	И
										4.00	20.12	 <u>C</u>

ATOM ATOM	13036 13039	CB CG	TYR			39.061	116.422	90.978		20.70	
ATOM	13040		TYR		320	27 27/	335 460	92.292		20.35	
MOTA	13042		TYR		320	37.376	115.469 114.857 114.552	92.591		19.94	
ATOM	13044	CZ	TYR		320	39 007	114.00/	93.781		19.67	
ATOM	13045	OH	TYR		320	37 652	113 050	94.694		19.88	
ATOM	13047		A	_	320	39 324	113.950	94.422		20.01	
ATOM	13049	CD2	TYR	ח	320	39 661	115 //2	94.694 95.881 94.422 93.224 92.101	1.00	19.88	
ATOM	13051	C	TYR	ח	320	39 741	110.442	93.224	1.00	20.15	
ATOM	13052	ŏ	TYR	ת	320	40 968	118 564	92.101	1.00	20.94 20.78	
ATOM	13053	N	ASN	ם	321	39.022	119 013	92.030	1 00	21.28	
MOTA	13055	CA	ASN	D	321	39.555	119 586	94 329	1 00	21.69	
MOTA	13057	СВ	ASN	D	321	38.626	120.746	94.733	1 00	21.83	
ATOM		CG	ASN	D	321	39.303	121.809	95.576	1 00	20.95	
ATOM	13061	OD1	ASN	D	321	39.061	122.995	95.390	1.00	19.43	
MOTA	13062	ND2	ASN	D	321	40.127	121.393	96.515	1.00	20.93	•
MOTA	13065	С	ASN	D	321	39.542	118.458	95.387	1.00	22.23	
MOTA	13066	0	ASN	D	321	38.468	117.931	95.726	1.00	21.54	
MOTA	13067	N	HIS	D	322	40.724	118.085	95.891	1.00	22.96	
ATOM	13069	CA	HIS	D	322	40.818	117.021	96.900	1.00	23.77	
MOTA	13071	CB	HIS	D	322	42.149	116.238	96.795	1.00	24.07	
MOTA	13074	CG	HIS	D	322	42.101	114.884	97.456	1.00	25.78	
MOTA	13075	ND1	HIS	D	322	41.106	113.958	97.202	1.00	26.82	
ATOM	13077	CEI	HIS	D	322	41.309	112.878	97.935	1.00	26.95	
ATOM ATOM	13079	NEZ	HIS	מ	322	42.392	113.070	98.667	1.00	27.14	
ATOM	13081 13083	CD2	HIS	מ	322	42.902	114.319	98.393	1.00	26.71	
ATOM	13083	Ö	פדת	ח	322	40.538	117.501	98.354	1.00	23.63	
ATOM	13085	N	CIII	ח	323	40.309	110.003	99.256	1.00	23.64	
ATOM	13087	CA	GLU	ח	323	40.332	110.017	30.301	1.00	23.40	
ATOM	13089	СВ	GLU	D	323	40.597	120 851	99.020	1.00	23.21 23.45	•
ATOM	13092	CG	GLU	D	323	42.102	121.033	94.422 93.224 92.1016 93.111 94.7376 95.376 95.376 95.3890 96.3825 97.4502 97.4502 97.4502 97.4502 97.4502 97.248 97.248 99.8503 99.8503 99.8503 99.8503 99.8503 99.8503 99.8503 99.8503 99.8503 99.8503 99.9603 99.9603 99.9703 98.9303 98.1592 98.3564 99.9603 98.9303 98.3564 99.9603 99.9603 98.9303 98.3564 99.9603 98.3564 99.9603 98.3564 99.9603 98.3564 99.9603 98.3564 99.9603 98.3564 99.9603 98.3564 99.9603 98.3564 99.9603 98.3564 99.5538 99.5538 99.5538 99.5538 99.5635 99.5635	1.00	23.43	•
ATOM	13095	CD	GLU	D	323	42.808	120.540	101.104	1.00	24.52	
MOTA	13096	OE1	GLU	D	323	42.437	120.944	102.248	1.00	23.26	
MOTA	13097	OE2	GLU	D	323	43.748	119.744	100.914	1.00	24.55	
MOTA	13098	C	GLU	D	323	38.590	119.418	99.949	1.00	22.98	
ATOM	13099	0	GLU	D	323	38.043	119.013	100.970	1.00	22.89	
MOTA	13100	N	THR	D	324	37.917	119.905	98.908	1.00	22.80	
MOTA	13102	CA	THR	D	324	36.462	120.107	98.930	1.00	22.50	
MOTA	13104	CB	THR	D	324	36.072	121.409	98.159	1.00	22.59	
MOTA	13106	OG1	THR	D	324	36.456	121.322	96.782	1.00	22.02	
ATOM ATOM	13108 13112	CG2 C	THE	ח	324	36.863	122.623	98.664	1.00	22.66	
ATOM	13113	Ö	TUV	ח	324	33.089	118.910	98.372	1.00	22.31	
ATOM	13114	N	GLII	ח	325	36 /1/	110.00/	98.498	1.00	21.79	
MOTA	13116	CA	GLU	D	325	35 851	116 735	97.176	1.00	22.45 22.39	
ATOM	13118	СВ	GLU	D	325	35.239	115.774	98 220	1 00	22.70	
ATOM	13121	CG	GLU	D	325	36.033	115.582	99.525	1 00	23.36	
MOTA	13124	CD	GLU	D	325	37.010	114.396	99.538	1.00	24.78	
ATOM	13125	OE1	GLU	D	325	37.499	114.040	100.635	1.00	25.95	-
MOTA	13126	OE2	${ t GLU}$	D	325	37.322	113.820	98.477		26.11	
ATOM	13127	С	GLU				117.048	96.035		21.81	
MOTA	13128	0	GLU				116.385	95.914		21.16	
ATOM	13129	N	CYS	D	326		118.052	95.215	1.00	21.65	
ATOM	13131	CA	CYS	D	326		118.552	94.164		21.65	
MOTA MOTA	13133	CB	CYS	מ	326		119.877	94.582	1.00	21.65	
ATOM	13136 13137	SG C	CYS CYS				119.862	96.151		20.33	
ATOM	13137	0	CYS				118.851 119.355	92.850		21.87	
ATOM	13139	N	ILE				119.355	92.836 91.751		21.29	
ATOM	13141	CA			327		119.019	90.434		22.65 23.54	
•				_				20.304	1.00	20.04	

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ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	13143 13145 13148 13156 13157 13158 13160 13164 13177 131774 13181	C O N CAB C C O N C C C C C C C C C C C C C C C C	LEEEERRRRRRRAAAAAEEEEEEEEEERRRRRRRRRRRR		3277778888889999993333333333333333333333		34.606 33.411 34.824 34.225 33.115 35.078 34.907 36.032 36.042 35.787 34.969 35.969 33.818 32.506 33.417 30.476	118.084 116.645 115.715 118.469 120.405 120.761 121.152 122.584 123.326 122.900 124.845 122.925 123.493 122.575 122.753 122.163 124.212 125.089 127.084 125.947 126.341 127.245 128.603 124.711 127.573 128.603 124.711 124.156 123.368 124.399 127.450 123.166 123.368 124.3998 122.372 120.714 119.624 119.078 120.858 121.998 122.372 120.714 119.624 119.078 120.858 121.998 122.372 120.714 119.624 119.078 120.523 121.533 121.533 121.533 121.533	89.352 89.673 89.709 88.031 90.420 89.432 89.221 89.376 90.035 87.7259 86.932 87.259 86.932 87.259 86.234 87.582 88.126 87.582 88.127 88.126 89.91.699 91.699 91.699 91.699 91.953 88.865 89.738	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	23.59 24.99 24.05 25.57 26.94 27.76 27.78 27.79 24.52 27.79 24.53 24.53 24.53 24.53 24.53 24.53 24.53 24.53 24.53 27.27 27.28 27.27 27	000000000000000000000000000000000000000
ATOM	13233	CD2	TYR	D	335		27.386	120.523	89.799	1.00	22.31	C
MOTA	13236	0	TYR	D	335		31.382	117.931	92.404	1.00	22.18	0
MOTA	13239	CA	SER	D	336		30.249	117.165	94.851	1.00	21.45	C
ATOM	13244	OG	SER	D	336		28.370	117.450	96.271	1.00	20.49	0
ATOM	13247	0	SER	D	336			115.839	94.375		21.75 21.91	C 0
ATOM ATOM	13248 13250	N CA	LYS LYS					114.743	95.080	1.00	21.87	N
ATOM	13250	CB	LYS					113.451 112.396	94.832 95.827		21.71 21.69	C
ATOM	13255	CG	LYS	D	337		30.993	111.632	95.402		22.07	C
ATOM	13258	CD	LYS					111.100	96.629	1.00	22.88	· C
ATOM ATOM	13261 13264	CE NZ	LYS LYS					110.094 108.758	96.242 95.963		23.03 23.33	C
									90.903	1.00	23.33	N

ATOM	13268	С	LYS	D	337	27.766	113.581	94.944	1.00	21.72			С
MOTA	13269	0	LYS	D	337		113.113	94.082	1.00	21.42			ŏ
MOTA	13270	N	ASP		338		114.228	96.021	1.00				N
ATOM	13272	CA	ASP				114.419	96.288	1.00				С
MOTA	13274	CB	ASP				115.180	97.604		21.84			, C
ATOM ATOM	13277 13278	CG OD1	ASP ASP		338		115.141 116.180	98.086 98.580	1.00				C
ATOM	13279		ASP				114.107	98.005	1.00				, O
ATOM	13280	C	ASP				115.146	95.152	1.00			•	C
ATOM	13281	Ō	ASP				114.848	94.860	1.00				ő
MOTA	13282	N	ASP				116.094	94.525	1.00				N
MOTA	13284	CA	ASP	D	339	25.298	116.899	93.449	1.00	21.88			C
MOTA	13286	CB	ASP				118.038	93.050	1.00				C
ATOM	13289	CG	ASP				119.120	94.091	1.00				С
ATOM	13290		ASP				119.470	94.707	1.00				0
MOTA MOTA	13291 13292		ASP				119.692 116.080	94.339		22.06			0
ATOM	13292	С 0	ASP		339		116.314	92.203 91.526	1.00	21.86		•	C O
ATOM	13294	Й	PHE				115.146	91.879	1.00		٠.		N
ATOM	13296	CA	PHE				114.243	90.774		21.96	•		C
MOTA	13298	СВ	PHE				113.275	90.563		21.67			Č
MOTA	13301	CG	PHE	D	340		113.834	89.737		20.36			C
MOTA	13302		PHE				115.031	90.078	1.00	18.74			С
MOTA	13304		PHE				115.525	89.340		18.16			С
ATOM	13306	CZ	PHE				114.830	88.240	1.00				C
ATOM ATOM	13308 13310		PHE PHE				113.620	87.883		18.94			C
ATOM	13310	CD2			340		113.130 113.475	88.633 91.114		19.62 22.63			Ċ
ATOM	13312	Ö			340		113.475	90.348		22.45			0
ATOM	13314	N			341		112.860	92.296		23.66			Ŋ
ATOM	13316	CA			341		112.022	92.750	1.00				Ĉ
MOTA	13318	CB			341	23.594	111.335	94.087		24.61			Ċ
ATOM	13321	CG			341		110.415	94.606		24.90			С
ATOM	13322		HIS				109.253	93.957		25.23			N
ATOM	13324 13326		HIS				108.657	94.638		25.18			C
ATOM ATOM	13328		HIS HIS				109.390	95.704 95.708		24.35			N C
ATOM	13330	CDZ			341		112.777	92.841		25.22			000000000000000000000000000000000000000
ATOM	13331	ŏ			341		112.182	92.612		25.40			0 N C C
ATOM	13332	N			342		114.076	93.141		25.94			Ŋ
MOTA	13334	CA	ARG	D	342	20.712	114.917	93.156	1.00	26.51			С
ATOM	13336	CB			342		116.260	93.843		26.53			. C
ATOM	13339	CG			342		116.387	95.277	_	27.35			C
MOTA	13342	CD			342 342		116.453	96.376		28.04			· C
ATOM ATOM	13345 13347	NE CZ	ARG	_			117.526 118.692	97.343 97.396	1.00	27.92 28.32			N
ATOM	13348		ARG				118.984	96.539		27.50		٠	C N
ATOM	13351		ARG				119.583	98.328		28.66			N
MOTA	13354	C			342		115.165	91.737		26.96			C
MOTA	13355	0	ARG	D	342	18.973	115.518	91.584		26.59			ō
MOTA	13356	N			343		. 114.981	90.718		27.71			. N
MOTA	13358	CA			343		115.056	89.297		28.17			С
ATOM	13360	CB			343		115.420	88.420		28.01			C
ATOM ATOM	13364 13365	С 0			343 343) 113.771 . 113.648	88.776		28.68			C
ATOM	13366	И			344		112.826	87.573 89.671		28.97 29.34			N 0
ATOM	13368	CA			344		111.539	89.319		29.76			C
ATOM	13371	C			344		110.430	88.982		30.22			Ċ
MOTA	13372	0.			344		2 109.326	88.648		30.33			o o
MOTA	13373	N	LEU	D	345		110.703	89.079	1.00	30.59			N
MOTA	13375	CA	LEU	D	345	22.436	5 109.761	88.619	1.00	30.99			·C

ATOM	13377	СВ	LEU	D	345	23.785	110.482	88.392	1.00 31.13	С
ATOM	13380		LEU		345		111.635	87.372	1.00 31.13	C
ATOM	13382		LEU		345		111.914	87.000		
				-					1.00 31.62	C
ATOM	13386						111.376	86.110	1.00 32.03	
MOTA	13390	C	LEU				108.545	89.541	1.00 31.08	_
MOTA	13391	0	LEU		345		108.620	90.768	1.00 31.20	
MOTA	13392	N	GLN				107.431	88.903	1.00 31.06	
MOTA	13394	CA	GLN				106.191	89.556	1.00 31.00	
MOTA	13396	CB	GLN	D	346		105.111	88.503	1.00 31.10	С
ATOM	13399	CG	GLN	D	346	22.582	104.170	88.205	1.00 31.85	С
MOTA	13402	CD	GLN	D	346	23.015	102.995	87.321	1.00 32.92	
ATOM	13403	OE1	GLN				101.826	87.639	1.00 33.78	
ATOM	13404	NE2	GLN					86.218	1.00 31.83	
MOTA	13407	C			346		106.377	90.352	1.00 30.85	
ATOM	13408	ŏ			346		106.977	89.859	1.00 30.87	
ATOM	13409	N	VAL				105.808	91.560	1.00 30.65	
MOTA	13411	CA			347		105.682	92.394	1.00 30.36	
MOTA	13413	CB			347		104.859	93.673	1.00 30.19	
ATOM	13415		VAL				104.399	94.373	1.00 29.60	
MOTA	13419						3 105.690	94.621	1.00 30.41	
MOTA	13423	С			347		3 104.988	91.657	1.00 30.12	
MOTA	13424	0	VAL	D	347		105.346	91.783	1.00 30.18	0
MOTA	13425	N	GLU	D	348	26.72	104.007	90.857	1.00 29.75	N
ATOM	13427	CA	GLU	D	348	27.602	2 103.018	90.263	1.00 29.12	
ATOM	13429	CB	GLU	D	348	26.732	2 101.823	89.789	1.00 29.32	
MOTA	13432	CG	GLU	D	348		101.775	90.485	1.00 30.20	
MOTA	13435	CD			348		7 100.410	90.574	1.00 32.08	
ATOM	13436	OE1			348	25.304		90.160	1.00 34.02	
MOTA	13437		GLU				3 100.334	91.079	1.00 32.31	
ATOM	13438	C			348		103.693	89.153	1.00 28.19	
ATOM	13439	õ			348		103.033	88.795	1.00 27.93	
ATOM	13440	N			349		104.822	88.656	1.00 27.37	
MOTA	13442	CA			349		7 105.740	87.768	1.00 26.58	
ATOM	13444	CB			349		5 106.528	86.883	1.00 26.82	. C
ATOM	13447	CG			349		L 107.529	85.946	1.00 27.76	
ATOM	13448		PHE				0 107.114	84.989	1.00 27.85	
MOTA	13450		PHE				L 108.004	84.136	1.00 27.86	
ATOM	13452	CZ			349		7 109.347	84.222	1.00 29.09	
ATOM	13454		PHE				1 109.792	85.162	1.00 29.42	
ATOM	13456	CD2			349		108.885	86.019	1.00 29.04	l C
MOTA	13458	С	PHE	D	349	29.50	3 106.723	88.561	1.00 25.28	3 C
ATOM	13459	0	PHE	D	349	30.65	9 106.943	88.219	1.00 24.79	9 0
ATOM	13460	N	ILE	D	350	28.93	2 107.300	89.613	1.00 24.05	
MOTA	13462	CA	ILE	D	350	29.56	108.370	90.381	1.00 23.28	3 C
ATOM	13464	CB	ILE	Đ	350		4 108.917	91.482		
ATOM	13466		ILE			27.43	109.695	90.831	1.00 22.93	_
ATOM	13469		ILE				2 109.857	91.698	1.00 21.90	
MOTA	13473		ILE				0 109.847	92.496	1.00 22.95	
ATOM	13477	C			350		3 107.961	91.024	1.00 22.83	
ATOM	13478	ŏ			350		7 108.721	90.983	1.00 22.60	
MOTA	13479	N			351		5 106.780			
MOTA	13479	CA			351		6 106.381	91.629	1.00 22.3	
								92.427	1.00 22.38	
ATOM	13483	CB			351		1 105.140	93.290	1.00 22.44	
ATOM	13486	CG			351		4 105.452	94.453	1.00 22.50	
ATOM	13487		ASN				9 106.489	95.104	1.00 23.3	
ATOM	13488				351		1 104.544	94.710	1.00 20.88	
MOTA	13491	C			351		3 106.197	91.599	1.00 22.3	
MOTA	13492	0			351		6 106.707	91.999	1.00 21.9	
MOTA	13493	N			352		3 105.466	90.477	1.00 22.43	
MOTA	13494	CA			352		1 105.455	89.507	1.00 22.3	6 C
ATOM_	13496_	_CB_	PRO	D	352	33.92	6 104.530	88.402	1.00 22.6	
										

ATOM	13499	CG	PRO	n	352	32 935	103.627	89.100	1.00 22.5	1	C
ATOM	13502		PRO				104.516	90.085	1.00 22.6		. C
ATOM	13502		PRO				106.836	88.932	1.00 22.2		C
ATOM	13506		PRO				107.048	88.772	1.00 22.2		o
ATOM	13507	N	ILE				107.733	88.638	1.00 21.9	_	N
								88.202	1.00 21.9		
MOTA	13509	CA	ILE				109.097				C
ATOM	13511	CB	ILE				110.004	88.087	1.00 22.5		C
MOTA	13513		ILE				109.566	86.971	1.00 23.4		C
MOTA	13516		ILE				108.789	85.859	1.00 25.9		C
MOTA	13520		ILE				111.482	87.823	1.00 23.5		C
MOTA	13524	C	ILE ·				109.773	89.170	1.00 21.7	-	C
MOTA-	13525	0	ILE				110.370	88.769	1.00 21.0)4	0
ATOM	13526	N	PHE				109.703	90.447	1.00 21.9	95	N
MOTA	13528	CA	PHE				110.409	91.499	1.00 22.2	21	C.
ATOM	13530	CB	PHE				110.640	92.701	1.00 22.2		С
ATOM	13533	CG.	PHE	D	354		111.879	92.571	1.00 23.4	18	С
ATOM	13534	CD1	PHE	D	354	32.730	111.953	91.602	1.00 24.8	35	С
ATOM	13536	CE1	PHE	D	354	31.932	113.101	91.485	1.00 24.8	30	С
ATOM	13538	CZ	PHE	D	354	32.136	114.180	92.333	1.00 24.0)1	С
ATOM	13540	CE2	PHE	D	354	33.125	114.121	93.288	1.00 23.6	58	, C
ATOM	13542	CD2	PHE	D	354	33.917	112.980	93.406	1.00 23.8	34	С
MOTA	13544	С	PHE			36.833	109.703	91.888	1.00 22.2	27	C
ATOM	13545	0	PHE				110.367	92.105	1.00 21.8		ο΄
ATOM	13546	N	GLU				108.368	91.947	1.00 22.9		N
ATOM	13548	CA	GLU				107.565	92.166	1.00 22.9		C
ATOM	13550	CB	GLU				106.059	.92.216	1.00 23.		C
ATOM	13553	CG	GLU				105.055	91.844	1.00 26.3		Č
MOTA	13556	CD	GLU				103.571	91.983	1.00 29.8		Ċ
ATOM	13557		GLU				102.821	90.953	1.00 30.4		ō
ATOM	13558	OE2	GLU				103.146	93.128	1.00 28.8		Ö
ATOM	13559	C	GLU				107.881	91.069	1.00 22.		Č
MOTA	13560	Ō	GLU				108.075	91.341	1.00 22.		Õ
ATOM	13561	N	PHE				107.962	89.831	1.00 22.		N
ATOM	13563	CA	PHE				108.252	88.714	1.00 21.		C
ATOM	13565	CB	PHE				108.236	87.389	1.00 21.		č
ATOM	13568	CG	PHE				108.563	86.161	1.00 20.		č
ATOM	13569		PHE		356		107.643	85.647	1.00 19.		č
ATOM	13571		PHE				107.925	84.516	1.00 20.		C
ATOM	13573	CZ			356		109.155	83.857	1.00 20.		Č.
ATOM	13575		PHE				110.083	84.353	1.00 20.		Č
MOTA	13577	CD2	PHE				109.775	85.506	1.00 20.		č
ATOM	13579	C			356		109.613	88.932	1.00 22.		Č
ATOM	13580	Ö			356		109.776	88.746	1.00 22.		Ö
ATOM	13581	N			357		110.581		1.00 22.		N
ATOM	13583	CA			357		111.965	89.441	1.00 22.		C
	13585	CB			357		111.965	89.725	1.00 22.		
ATOM		OG									C
MOTA	13588	C			357		112.608	88.748	1.00 23.		0
ATOM	13590 13591				357			90.540	1.00 22.		C
ATOM		0			357		2 112.749	90.336	1.00 22.		0
ATOM	13592	N			358		111.562	91.705	1.00 23.		N
ATOM	13594	CA			358		111.441	92.822	1.00 23.		C
ATOM	13596	CB			358		110.539	93.895	1.00 23.		C
ATOM	13599	CG			358		111.209	94.976	1.00 24.		C
ATOM	13602	CD			358		110.306	96.194	1.00 26.		C
ATOM	13605	NE	ARG				108.888	95.840	1.00 28.		И
ATOM	13607	CZ			358		3 108.249	95.780	1.00 29.		C
MOTA	13608		ARG				108.883	96.034	1.00 29.		N
ATOM	13611		ARG				106.958	95.450	1.00 27.		N
MOTA	13614	C			358		110.830	92.426	1.00 23.		C
ATOM	13615	0			358		111.291	92.843	1.00 24.		0
MOTA	13616	N	ALA	D	359	42.640	5 109.761	91.657	1.00 24.	70	N
			•		-						

ATOM	13618		ALA				109.060	91.284	1.00 25.97 1.00 26.12	C
ATOM ATOM	13620 13624	CB C	ALA ALA				107.709 109.895	90.658 90.320	1.00 26.12	G
ATOM	13625	ŏ	ALA	_			109.899	90.386	1.00 27.13	· 0
ATOM	13626	N	MET	D	360	44.015	110.595	89.422	1.00 27.85	N
ATOM	13628	CA	MET		360		111.460	88.446	1.00 28.56	
ATOM	13630	CB	MET				112.080	87.546	1.00 28.45	C
MOTA	13633	CG	MET				112.313	86.120	1.00 30.11	C
MOTA	13636	SD	MET		360		110.883	85.113	1.00 28.53 1.00 34.13	S C
MOTA	13637 13641	CE	MET MET				109.810 112.569	85.823 89.155	1.00 34.13	C
ATOM ATOM	13642	С 0	MET			46.510	112.954	88.745	1.00 29.36	0
ATOM	13643	N	ARG				113.076	90.227	1.00 29.70	и С С
MOTA	13645	CA	ARG				114.136	91.017	1.00 30.30	C
MOTA	13647	CB	ARG				114.577	92.114	1.00 31.01	С
MOTA	13650	CG	ARG				116.079	92.461	1.00 33.71	С
ATOM	13653	CD	ARG				117.057	91.292	1.00 36.07	C
MOTA	13656	NE	ARG				118.427	91.594	1.00 38.11	N
MOTA	13658	CZ	ARG ARG				119.551 119.521	91.130 90.303	1.00 39.33 1.00 40.49	· C
ATOM ATOM	13659 13662		ARG				120.725	91.492	1.00 40.49	N N
ATOM	13665	C	ARG				113.722	91.626	1.00 29.88	Ĉ
ATOM	13666	ŏ	ARG				114.546	91.763	1.00 30.15	C O N
ATOM	13667	Ŋ			362		112.446	91.985	1.00 29.65	N
ATOM	13669	CA			362	48.170	111.878	92.511	1.00 29.18	С
MOTA	13671	CB			362		110.507	93.169	1.00 29.35	C
MOTA	13674	CG			362		110.584	94.575	1.00 30.19	C
MOTA	13677	CD			362		109.249	95.323	1.00 31.60	
ATOM	13680	NE			362		108.648 107.717	95.253 94.377	1.00 32.65 1.00 33.54	И С
MOTA MOTA	13682 13683	CZ NH1	ARG		362 362		107.717	93.461	1.00 33.34	N
ATOM	13686		ARG				107.271	94.412	1.00 33.57	. N
ATOM	13689	C			362		111.729	91.447	1.00 28.41	Ċ
MOTA	13690	0			362	50.456	111.699	91.775	1.00 28.03	0
MOTA	13691	N			363		111.593	90.181	1.00 27.94	N
ATOM	13693	CA			363		111.656	89.066	1.00 27.63	C
ATOM	13695	CB			363		111.128	87.757	1.00 27.65	C
ATOM ATOM	13698 13700	CG	LEU		363		109.647	87.420 86.037	1.00 29.01 1.00 29.75	C C
ATOM	13704		LEU				109.230	87.468	1.00 29.68	Č
ATOM	13708	C			363		113.091	88.854	1.00 26.67	Č
ATOM	13709	ō			363		113.292	88.377	1.00 26.33	. 0
. ATOM	13710	N			364	49.497	114.069	89.200	1.00 25.70	N
MOTA	13712	CA			364		115.471	89.097	1.00 25.00	С
MOTA	13715	C			364		115.827	87.698	1.00 24.46	C
MOTA	13716	O N	GLY	ט	364		116.319	87.512	1.00 24.19	O N
ATOM ATOM	13717 13719	N CA			365 365		115.950	86.707 85.340	1.00 23.82 1.00 23.63	N C
ATOM	13721	CB			365		115.348	84.333	1.00 23.03	Č
ATOM	13724	CG			365		113.823	84.122	1.00 25.37	Č
ATOM	13726		LEU				113.520	82.731	1.00 26.39	C
MOTA	13730		LEU	D	365		2 113.110	84.331	1.00 25.72	. C
MOTA	13734	С			365		117.485	85.176	1.00 22.74	С
ATOM	13735	0			365		118.206	85.825	1.00 22.40	0
ATOM	13736	N			366		5 117.964	84.303	1.00 21.78	N
MOTA MOTA	13738 13740	CA CB			366 366		9 119.384 2 119.895	83.959 83.946	1.00 21.15 1.00 20.82	C
ATOM	13743	CG			366		9 119.161	82.977	1.00 20.82	C
ATOM	13744		ASP				5 118.498	82.080	1.00 19.99	· ő
ATOM	13745		ASP	D	366	54.31	119.183	83.027	1.00 19.11	0
ATOM	13746	_ <u>C</u> _	_ASP	D	366	50.023	3 119.609	82.631	1.00 20.87	С

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MOTA	13747	0	ASP	D 366		49.387	118.696	92 105	7 00 00
ATOM	13748	N	ASP		_	50.093		82.105	1.00 20.68
MOTA	13750	CA	ASP		•	49.335		82.104	1.00 20.37
MOTA	13752	СВ	ASP			49.370		80.906	1.00 20.07
ATOM	13755	CG	ASP			48.587		80.651	1.00 20.06
ATOM	13756		ASP					81.707	1.00 20.54
ATOM	13757	OD2				47.757		82.449	1.00 19.80
ATOM	13758	C	ASP			48.735		81.855	1.00 22.21
ATOM	13759	Ö	ASP			49.815		79.677	1.00 19.79
ATOM	13760					49.009	119.853	78.898	1.00 20.20
ATOM	13762	N	ALA			51.119	120.243	79.521	1.00 19.10
ATOM	13762	CA	ALA				119.515	78.404	1.00 18.97
ATOM		CB	ALA			53.174		78.454	1.00 19.22
ATOM	13768	C	ALA			51.244		78.420	1.00 19.05
	13769	0	ALA			50.894		77.382	1.00 19.42
ATOM ATOM	13770	N	GLU	_		51.263	117.453	79.613	1.00 18.57
	13772	CA	GLU			51.017	116.038	79.791	1.00 17.67
ATOM	13774	CB	GLU			51.444	115.590	81.187	1.00 17.57
ATOM ATOM	13777	CG	GLU			52.954	115.386	81.330	1.00 16.91
	13780	CD	GLU			53.435	115.301	82.779	1.00 15.04
ATOM	13781	OE1				54.568	114.842	83.036	1.00 13.47
ATOM.	13782	OE2				52.686	115.681	83.685	1.00 15.20
ATOM	13783	С	GLU			49.558	115.761	79.556	1.00 17.63
ATOM	13784	0	GLU			49.219	114.772	78.920	1.00 18.08
ATOM	13785	N	TYR			48.676	116.628	80.025	1.00 17.66
ATOM	13787	CA	TYR			47.261	116.383	79.794	1.00 18.30
MOTA	13789	CB	TYR			46.381	117.376	80.517	1.00 18.67
ATOM	13792	CG	TYR			45.808	116.849	81.801	1.00 21.05
ATOM ATOM	13793	CD1					117.446	83.028	1.00 23.25
	13795	CE1				45.627		84.221	1.00 23.37
ATOM ATOM	13797	CZ	TYR			44.768	115.914	84.229	1.00 23.91
	13798	OH	TYR		•	44.274	115.482	85.440	1.00 23.59
ATOM ATOM	13800	CE2				44.409	115.300	83.028	1.00 24.96
ATOM	13802	CD2		D 370			115.783	81.808	1.00 22.06
ATOM -	13804 13805	C		D 370		46.953		78.319	1.00 18.19
ATOM	13806	0		D 370		46.259	115.603	77.791	1.00 17.82
ATOM	13808	N		D 371		47.491	117.493	77.668	1.00 18.69
ATOM	13810	CA	ALA		_		117.801	76.272	1.00 18.52
ATOM	13814	CB C		D 371		47.795	119.140	75.852	1.00 18.43
ATOM	13815	0		D 371		47.661	116.674	75.390	1.00 18.35
ATOM	13816	N		D 371 D 372		46.945	116.232	74.487	1.00 18.18
ATOM	13818	CA	LEU			48.847		75.693	1.00 18.25
ATOM	13820	CB	•				115.028	74.964	1.00 18.98
ATOM	13823	CG		D 372		50.807		75.415	1.00 18.86
ATOM	13825			D 372			115.736	74.853	1.00 18.92
ATOM	13829			D 372 D 372		53.181	115.643	75.548	1.00 18.38
ATOM	13833	CDZ		D 372		51.934	115.533	73.353	1.00 19.42
ATOM	13834	ŏ		D 372		48.503	113.760	75.099	1.00 19.72
ATOM	13835	N		D 372		48.331	113.008	74.154	1.00 19.43
ATOM	13837	CA		D 373		47.9/1	113.530	76.292	1.00 20.97
ATOM	13839	CB	T.PIT	D 373		47.180	112.329	76.574	1.00 21.51
ATOM	13842	CG		D 373		46.819	112.225	78.068	1.00 22.02
ATOM	13844		י זוק,ן	D 373		41.579	111.219	78.927	1.00 23.19
ATOM	13848	CD2	ו נומיו	D 373			111.138	80.293	1.00 24.13
ATOM	13852	CDZ	TEH I	D 373		47.641		78.243	1.00 23.08
ATOM	13853	Ö	ו טפע	D 373		45.909	112.368	75.786	1.00 21.12
ATOM	13854	N		D 374			111.332	75.360	1.00 20.97
ATOM	13856	CA		D 374			113.560	75.605	1.00 20.62
ATOM	13858	CB		D 374			113.654	74.868	1.00 21.18
ATOM	13860	CG1	ILE I) 374			115.011	74.986	1.00 21.45
ATOM	13863		ILE I) 274			115.327	76.456	1.00 22.09
			1	J/4		43.129	116.846	76.721	1.00 20.83

MOTA	13867	CG2	ILE	D 374	42.339 115.092 74.048 1.00 21.96
ATOM	13871	С	ILE	D 374	44.441 113.354 73.397 1.00 21.37
MOTA	13872	0	ILE	D 374	43.705 112.601 72.765 1.00 21.71
MOTA	13873	N	ALA		45.496 113.944 72.845 1.00 20.92
ATOM	13875	CA	ALA		45.829 113.693 71.456 1.00 20.37
MOTA	13877	CB		D 375	47.084 114.443 71.089 1.00 20.56
MOTA	13881	C		D 375	46.012 112.193 71.261 1.00 20.11
ATOM	13882	0	ALA		45.441 111.611 70.362 1.00 19.98
ATOM	13883	N	ILE		46.787 111.582 72.152 1.00 20.02
ATOM	13885	CA	ILE		47.047 110.161 72.141 1.00 19.93
MOTA	13887	CB	ILE		47.960 109.772 73.318 1.00 19.91
ATOM	13889		ILE		49.370 110.321 73.087 1.00 19.82
MOTA MOTA	13892	CD1	TTE	D 376	50.422 109.953 74.173 1.00 20.60
ATOM	13896 13900		エエレ	D 376	48.013 108.222 73.502 1.00 20.45
ATOM	13900	C	775	D 376	45.743 109.383 72.172 1.00 20.24
ATOM	13901	O N		D 376	45.592 108.383 71.460 1.00 20.69
ATOM	13902	N CA		D 377	44.806 109.843 72.988 1.00 20.20
ATOM	13904	CB		D 377 D 377	43.544 109.144 73.193 1.00 20.29
ATOM	13909	CG		D 377	42.818 109.737 74.438 1.00 20.78
ATOM	13910		ACM	D 377	41.464 109.059 74.742 1.00 20.97 40.473 109.329 74.066 1.00 23.08
ATOM	13911			D 377	
ATOM	13914	C		D 377	
ATOM	13915	Ö		D 377	
ATOM	13916	N		D 378	40 700 110 000
MOTA	13918	CA		D 378	44 646 444
MOTA	13920	CB	ILE		41.968 110.599 70.030 1.00 18.75 42.153 112.060 69.508 1.00 18.77
ATOM	13922	CG1	ILE	D 378	41.342 113.031 70.375 1.00 19.09
ATOM	13925	CD1		D 378	41.781 114.472 70.341 1.00 18.79
MOTA	13929	CG2	ILE :	D 378	41.724 112.187 68.044 1.00 18.91
ATOM	13933	С		D 378	42.382 109.578 68.981 1.00 18.32
ATOM	13934	0	ILE 1	D 378	41.519 108.926 68.376 1.00 16.91
ATOM	13935	N		D 379	43.701 109.422 68.823 1.00 18.34
MOTA	13937	CA		D 379	44.297 108.552 67.805 1.00 18.78
ATOM ATOM	13939 13942	CB		D 379	45.643 109.133 67.324 1.00 18.61
ATOM	13942	CG CD1	PHE I	D 379 D 379	45.493 110.415 66.539 1.00 17.77
ATOM	13945		PHE I		46.182 111.562 66.910 1.00 15.28
ATOM	13947	CZ		D 379	46.000 112.731 66.255 1.00 14.16 45.157 112.796 65.182 1.00 15.49
ATOM	13949		PHE I		
ATOM	13951	CD2	PHE I	379	1
ATOM	13953	С		379	44.623 110.486 65.473 1.00 16.28 44.444 107.085 68.237 1.00 19.48
MOTA	13954	0		379	45.507 106.467 68.067 1.00 18.89
ATOM	13955	N		380	43.355 106.536 68.773 1.00 20.73
ATOM	13957	CA	SER I	380	43.291 105.140 69.175 1.00 22.12
ATOM	13959	CB	SER I		42.420 104.992 70.402 1.00 22.33
ATOM	13962	OG	SER I		42.986 105.676 71.489 1.00 23.06
ATOM	13964	C	SER I		42.691 104.347 68.029 1.00 23.01
ATOM	13965	0	SER I		41.533 104.555 67.626 1.00 22.89
ATOM ATOM	13966	N	ALA I		43.486 103.446 67.487 1.00 23.95
ATOM	13968 13970	CA CB	ALA I		43.197 102.911 66.170 1.00 24.86
ATOM	13974		ALA I		44.492 102.384 65.538 1.00 24.88
ATOM	13975	Ö	ALA [) 301	42.115 101.817 66.268 1.00 25.60
ATOM	13976		ASP [41.365 101.554 65.296 1.00 26.24 42.017 101.233 67.467 1.00 25.73
ATOM	13978		ASP D		
ATOM	13980		ASP D		2.50 25100
ATOM	13983		ASP D		11 20 2011
ATOM	13984		ASP D	382	41.538 100.071 70.217 1.00 26.58 41.974 101.227 70.325 1.00 24.92
MOTA	13985	OD2	ASP D	382	40.909 99.570 71.157 1.00 33.53
ATOM	13986		ASP D		39.670 100.569 68.217 1.00 25.05

ATOM ATOM ATOM	13987 13988 13990	O N CA	ASP ARG ARG	D	382 383 383			99.837 101.749 102.194	68.939 67.802 68.138	1.00 25.29 1.00 24.30 1.00 23.6	5	О И С
MOTA	13992	СВ	ARG	D	383			103.687	67.917	1.00 23.3		č
MOTA	13995	CG	ARG	D	383	•		104.525	68.764	1.00 22.0		Ċ
ATOM	13998	CD	ARG					104.330	70.242	1.00 21.2		C
ATOM	14001	NE	ARG					105.473	71.003	1.00 21.3		N
ATOM	14003	CZ	ARG					105.602	72.320	1.00 20.7		C
ATOM ATOM	14004 14007		ARG ARG					104.654	73.044	1.00 18.6		N.
ATOM	14007	C	ARG					106.704 101.493	72.902 67.211	1.00 21.5		N
ATOM	14011	Ö	ARG					101.137	66.107	1.00 23.9		. C
ATOM	14012	N	PRO					101.357	67.614	1.00 24.3		N
MOTA	14013	CA	PRO	D	384			100.764	66.727	1.00 24.5		C
MOTA	14015	CB	PRO					100.906	67.508	1.00 24.5	0	· C
ATOM	14018	CG	PRO					101.100	68.909	1.00 24.6		С
MOTA	14021	CD	PRO					101.802	68.887	1.00 24.7		С
ATOM	14024	C	PRO					101.576	65.443	1.00 24.4		C
ATOM ATOM	14025 14026	O N	PRO ASN					102.789 100.895	65.477	1.00 24.8	•	0
ATOM	14028	CA	ASN					100.893	64.336 63.048	1.00 24.4 1.00 24.0		N
ATOM	14020	CB	ASN					102.335	63.209	1.00 24.0		C
ATOM	14033	CG	ASN					101.442	63.519	1.00 24.5		c
ATOM	14034		ASN					100.474	62.811	1.00 25.4		ŏ
MOTA	14035		ASN	D	385		30.748	101.753	64.583	1.00 24.6		N
MOTA	14038	С	ASN					102.312	62.327	1.00 23.1		И
MOTA	14039	0			385			103.058	61.413	1.00 23.4		0
ATOM	14040	N			386			102.115	62.711	1.00 22.2		N
ATOM	14042	CA			386			102.819	62.085	1.00 21.6		C
ATOM ATOM	14044 14046	CB CG1	VAL		386			102.868 103.489	63.009	1.00 21.8		C
ATOM	14050				386			103.469	62.308 64.260	1.00 23.2 1.00 22.0		. C
ATOM	14054	C			386			102.117	60.822	1.00 22.0		C
ATOM	14055	ō			386			100.962	60.871	1.00 20.9	-	ő
ATOM	14056	N			387			102.840	59.706	1.00 21.1		N
MOTA	14058	CA			387			102.337	58.382	1.00 21.1		С
MOTA	14060	CB			387			103.298	57.316	1.00 21.6		С
ATOM	14063	CG			387			103.474	57.271	1.00 23.8		С
ATOM	14066 14067	CD OF1			387			102.152	57.315	1.00 26.8		C
ATOM ATOM	14067	NE2	GLN GLN					101.587 101.681	58.402 56.151	1.00 29.7		0
ATOM	14071	C			387			102.150	58.138	1.00 26.8 1.00 20.4		N C
ATOM	14072	ŏ			387			101.134	57.551	1.00 20.4		0
ATOM	14073	N			388			103.122	58.578	1.00 19.5		N
MOTA	14075	CA			388		42.057	103.106	58.374	1.00 19.1		Ċ
MOTA	14077	CB			388		42.469	104.335	57.573	1.00 19.4	5	C.
MOTA	14080	CG			388			104.524	56.323	1.00 21.2		С
MOTA	14083	CD			388			105.317	55.207	1.00 22.4		С
ATOM	14084 14085	OE1	GLU					106.564	55.252	1.00 22.0		0
MOTA MOTA	14085	C			388			104.695 103.030	54.281 59.684	1.00 23.9		0
ATOM	14087	ŏ			388			103.984	60.101	1.00 18.1 1.00 18.0		. C
MOTA	14088	N			389			101.896	60.357	1.00 17.2		Ŋ
ATOM	14089	CA			389			101.816	61.649	1.00 16.8		C
MOTA	14091	CB			389		43.156	100.416	62.141	1.00 17.0		č
MOTA	14094	CG			389		42.733		60.902	1.00 17.4	3	C
ATOM	14097	CD			389			100.640	59.984	1.00 17.2		Ċ
MOTA	14100	C			389			102.000	61.470	1.00 16.7		C
MOTA	14101 . 14102	N O			389 390			102.671 101.430	62.276	1.00 17.3		. 0
ATOM	14102	CA			390			101.430	60.435 60.098	1.00 16.7 1.00 16.8		. С И
	-			_					55.55	2.00 10.0	~	C

ATOM 14107 C GLY D 390 47.293 103.169 60.158 1.00 17.28 C C ATOM 14109 N ARG D 391 46.251 103.524 60.809 1.00 17.15 O ATOM 14111 CA ARG D 391 46.527 104.017 59.489 1.00 18.14 N ATOM 14111 CA ARG D 391 46.796 105.440 59.439 1.00 19.06 C ATOM 14113 CB ARG D 391 45.861 106.150 58.473 1.00 19.79 C ATOM 14112 CB ARG D 391 45.861 106.150 58.473 1.00 19.79 C ATOM 14112 NE ARG D 391 45.861 106.150 58.473 1.00 19.79 C ATOM 14112 NE ARG D 391 45.861 106.150 58.473 1.00 31.03 C ATOM 14122 NE ARG D 391 45.46.295 107.848 56.57.873 1.00 31.03 C ATOM 14124 N ARG D 391 45.46.295 107.848 56.581 1.00 31.03 N ATOM 14124 N ARG D 391 45.46.295 107.848 56.581 1.00 31.03 N ATOM 14124 N ARG D 391 46.624 106.037 60.774 1.00 18.88 C ATOM 14131 N ARG D 391 46.624 106.037 60.774 1.00 18.88 C ATOM 14133 N ARG D 391 46.624 106.037 60.774 1.00 18.88 C ATOM 14133 N ARG D 391 46.624 106.037 60.774 1.00 18.88 C ATOM 14133 N ARG D 392 45.350 106.898 62.827 1.00 19.65 C ATOM 14139 CGI VAL D 392 45.350 106.198 62.827 1.00 19.65 C ATOM 14137 CB VAL D 392 45.350 106.198 62.827 1.00 19.65 C ATOM 14149 N GLU D 392 43.740 106.337 64.752 1.00 19.47 C ATOM 14149 N GLU D 392 44.6523 105.888 6.790 1.00 19.47 C ATOM 14149 N GLU D 393 46.988 106.337 64.6752 1.00 19.77 C ATOM 14149 N GLU D 393 46.988 108.639 1.00 1.00 19.47 C ATOM 14149 N GLU D 393 48.068 104.474 64.638 1.00 20.35 C ATOM 14149 N GLU D 393 48.098 104.639 63.776 1.00 20.35 C ATOM 14149 N GLU D 393 48.098 104.639 63.776 1.00 20.35 C ATOM 14151 CA GLU D 393 48.098 104.639 63.977 1.00 20.35 C ATOM 14151 CA GLU D 393 48.098 104.639 63.977 1.00 20.35 C ATOM 14164 N GLU D 393 48.098 104.639 63.977 1.00 20.35 C ATOM 14164 N GLU D 393 48.098 109.988 63.997 1.00 20.35 C ATOM 14164 N GLU D 393 48.098 109.988 63.997 1.00 20.35 C ATOM 14164 N GLU D 393 49.419 102.055 65.247 1.00 20.30 O D ATOM 14164 N GLU D 393 49.439 102.055 65.247 1.00 20.35 C ATOM 14164 N GLU D 393 49.439 102.055 65.247 1.00 20.35 C ATOM 14164 N GLU D 393 49.439 100.057 66.986 1.00 20.35 C ATOM 14164 N GLU D 393 49.439 100.057 66.986 1.														
ATOM 14110 N ARG D 391	MOTA	14107	С	GLY I	D :	390	47.	293	103.169	60.158	1.00	17.28		С
ATOM 14109 N ARG D 391 46.527 104.017 59.489 1.00 18.14 N ATOM 14111 CA ARG D 391 46.786 105.440 59.439 1.00 18.06 C ATOM 14113 CB ARG D 391 45.861 106.150 58.473 1.00 19.06 C ATOM 14119 CD ARG D 391 46.235 105.856 57.027 1.00 24.61 C ATOM 14119 CD ARG D 391 46.235 105.856 57.027 1.00 24.61 C ATOM 14120 NE ARG D 391 46.295 105.856 57.027 1.00 24.61 C ATOM 14121 NE ARG D 391 44.909 107.848 56.239 1.00 35.63 N ATOM 14125 NH1 ARG D 391 44.909 107.848 56.239 1.00 35.63 N ATOM 14128 NH2 ARG D 391 46.950 108.832 55.183 1.00 41.55 N ATOM 14131 C ATOM 14131 C ATOM 14131 C ATOM 14132 O ARG D 391 46.625 108.832 55.183 1.00 41.55 N ATOM 14133 N ATOM 14133 N ATOM 14133 N ATOM 14134 N ATOM 14134 N ATOM 14134 N ATOM 14135 CA VAIL D 392 45.605 105.609 61.511 1.00 19.28 N ATOM 14137 CB VAIL D 392 45.605 105.609 61.511 1.00 19.28 N ATOM 14137 CB VAIL D 392 43.978 105.775 63.402 1.00 19.67 C ATOM 14137 CB VAIL D 392 43.978 105.775 63.402 1.00 19.67 C ATOM 14147 CC VAIL D 392 43.978 105.775 63.402 1.00 19.67 C ATOM 14147 CC VAIL D 392 43.740 106.397 62.4027 1.00 19.67 C ATOM 14147 CC VAIL D 392 47.001 106.787 64.782 1.00 19.67 C ATOM 14147 CC VAIL D 392 47.001 106.787 64.782 1.00 19.07 C ATOM 14147 CC VAIL D 392 47.001 106.787 64.782 1.00 19.07 C ATOM 14147 CC VAIL D 392 47.001 106.787 64.782 1.00 19.07 C ATOM 14147 CC VAIL D 392 47.001 106.787 64.782 1.00 19.07 C ATOM 14147 CC VAIL D 392 47.001 106.787 64.782 1.00 19.07 C ATOM 14147 CC VAIL D 392 47.001 106.787 64.782 1.00 19.07 C ATOM 14148 N ATOM 14161 CC C GLU D 393 49.519 100.549 65.063 1.00 21.57 C ATOM 14141 CC VAIL D 392 47.001 106.782 64.426 1.00 20.30 C ATOM 14161 CC C GLU D 393 49.519 100.549 65.063 1.00 21.57 C ATOM 14161 CC C GLU D 393 49.519 100.549 65.063 1.00 21.57 C ATOM 14161 CC C GLU D 393 49.519 100.549 65.063 1.00 21.57 C ATOM 14161 CC C GLU D 393 49.519 100.549 65.063 1.00 21.57 C ATOM 14161 CC C GLU D 393 49.519 100.549 65.063 1.00 21.59 C ATOM 14161 CC C GLU D 393 49.519 100.57 66.65 63.977 1.00 22.56 C C ATOM 14161 CC C GLU D 395 49.590 100.055 66.50 1.00		14108					48.	261	103.524	60.809	1.00	17.15		0
ATOM 14111 CA ARG D 391 46.796 105.440 55.439 1.00 19.06 C ATOM 14113 CB ARG D 391 45.861 106.150 56.473 1.00 19.79 C ATOM 14119 CD ARG D 391 45.861 106.150 55.637 1.00 19.79 C ATOM 14119 CD ARG D 391 45.363 106.479 55.937 1.00 31.08 C ATOM 14122 NE ARG D 391 45.363 106.479 55.937 1.00 31.08 C ATOM 14124 CZ ARG D 391 45.632 108.922 55.783 1.00 31.08 C ATOM 14125 NH1 ARG D 391 45.621 108.922 55.184 1.00 39.19 C ATOM 14128 NH2 ARG D 391 45.621 10.100 56.6481 1.00 39.96 N ATOM 14131 C ARG D 391 45.621 10.100 56.481 1.00 39.96 N ATOM 14131 C ARG D 391 47.399 106.881 61.144 1.00 18.53 O ATOM 14132 O ARG D 391 47.399 106.881 61.144 1.00 18.53 O ATOM 14133 CALL D 392 45.350 106.198 62.827 1.00 19.28 N ATOM 14131 C ARG D 391 45.625 106.198 62.827 1.00 19.28 N ATOM 14133 CALL D 392 45.350 106.198 62.827 1.00 19.26 N ATOM 14137 CB VALL D 392 43.978 105.775 63.400 1.00 19.47 C ATOM 14143 CG VALL D 392 43.740 106.387 64.752 1.00 19.47 C ATOM 14146 O VALL D 392 42.846 106.211 62.462 1.00 19.77 C ATOM 14148 O VALL D 392 44.5350 105.888 63.790 1.00 20.35 C ATOM 14148 O VALL D 392 47.021 106.782 64.482 1.00 20.35 C ATOM 14150 CG GLU D 393 46.988 104.639 65.776 1.00 21.57 C ATOM 14151 CA GLU D 393 48.088 104.639 65.776 1.00 21.57 C ATOM 14151 CA GLU D 393 48.988 104.639 65.776 1.00 21.57 C ATOM 14151 CA GLU D 393 49.519 100.549 65.031 1.00 21.57 C ATOM 14164 O VALL D 392 47.021 106.782 64.482 1.00 20.30 C ATOM 14151 CA GLU D 393 49.519 100.549 65.031 1.00 21.57 C ATOM 14164 C C GLU D 393 49.519 100.549 65.031 1.00 21.57 C ATOM 14167 C C GLU D 393 49.519 100.59 65.031 1.00 21.57 C ATOM 14164 C C GLU D 393 49.519 100.59 65.031 1.00 21.57 C ATOM 14164 C C GLU D 393 49.519 100.59 65.031 1.00 21.57 C ATOM 14164 C C GLU D 393 49.519 100.59 65.031 1.00 21.24 C ATOM 14164 C C GLU D 393 59.512 100.039 66.055 1.00 20.05 C ATOM 14174 N LEU D 395 49.597 109.397 65.000 1.00 20.77 C ATOM 14164 C C GLU D 395 49.519 100.599 66.055 1.00 20.05 C ATOM 14174 N LEU D 395 49.597 109.397 65.000 1.00 20.77 C ATOM 14174 N LEU D 395 49.597 109.397 65.00			N	ARG I	D.	391	46.	527	104.017	59.489	1.00	18.14		N
ATOM 14113 CB ARG D 391 46.235 105.856 75.027 1.00 24.81 C ATOM 14119 CD ARG D 391 46.235 105.856 75.027 1.00 24.81 C ATOM 14112 NE ARG D 391 46.235 105.856 75.027 1.00 35.63 N ATOM 14122 NE ARG D 391 44.909 107.848 56.239 1.00 31.08 ATOM 14124 CZ ARG D 391 45.662 108.922 56.164 1.00 39.19 ATOM 14125 NH1 ARG D 391 46.950 108.832 55.783 1.00 41.56 N ATOM 14128 NH2 ARG D 391 46.962 108.922 56.164 1.00 39.96 N ATOM 14131 C ARG D 391 46.962 108.932 56.164 1.00 39.96 N ATOM 14131 C ARG D 391 46.624 106.037 60.774 1.00 18.88 C ATOM 14132 O ARG D 391 47.399 106.881 61.514 1.00 19.65 N ATOM 14133 N VAL D 392 45.605 105.609 61.511 1.00 19.65 C ATOM 14137 CB VAL D 392 45.950 105.609 62.827 1.00 19.65 C ATOM 14137 CB VAL D 392 43.978 105.775 63.400 1.00 19.65 C ATOM 14137 CB VAL D 392 43.978 105.775 63.400 1.00 19.65 C ATOM 141413 CG2 VAL D 392 42.846 106.211 62.462 1.00 19.77 C ATOM 14148 O VAL D 392 47.021 106.782 64.482 1.00 19.77 C ATOM 14148 N GLU D 393 46.988 104.639 63.776 1.00 20.35 C ATOM 14149 N GLU D 393 48.068 104.174 64.638 1.00 21.57 C ATOM 141416 C VAL D 392 47.021 106.782 64.482 1.00 20.30 O ATOM 14150 CB GLU D 393 48.068 104.174 64.638 1.00 21.57 C ATOM 14151 CA GUD D 393 48.068 104.174 64.638 1.00 21.57 C ATOM 14151 CA GUD D 393 49.419 102.065 65.247 1.00 25.36 C ATOM 14150 CB GLU D 393 49.419 102.065 65.247 1.00 25.06 C ATOM 14161 CB CB GLU D 393 49.419 102.065 65.247 1.00 25.00 N ATOM 14161 CB CB GLU D 393 49.419 102.065 65.247 1.00 25.00 N ATOM 14161 CB CB GLU D 393 49.419 102.065 65.247 1.00 25.56 C ATOM 14161 CB CB GLU D 393 49.419 102.065 65.247 1.00 25.56 C ATOM 14161 CB CB GLU D 393 49.419 102.065 65.247 1.00 25.00 C ATOM 14161 CB CB GLU D 393 49.419 102.065 65.247 1.00 25.00 C ATOM 14161 CB CB GLU D 393 49.419 102.065 65.247 1.00 25.00 C ATOM 14161 CB CB GLU D 393 49.419 102.065 65.247 1.00 25.00 C ATOM 14161 CB CB GLU D 393 49.419 102.065 65.247 1.00 25.00 C ATOM 14161 CB CB GLU D 393 49.419 102.065 65.247 1.00 20.00 C ATOM 14164 N ALA D 394 50.685 106.085 10.00 20.00 C ATOM 14170 CB CB CB D 39			_							59.439	1.00	19.06		С
ATOM 14116 CG ARG D 391 46.235 105.856 57.027 1.00 24.81 C ATOM 14119 CD ARG D 391 45.343 106.479 55.937 1.00 31.00 C ATOM 14124 CZ ARG D 391 45.462 108.922 55.184 1.00 35.63 N ATOM 14125 NH2 ARG D 391 45.682 108.922 55.184 1.00 39.96 N ATOM 14128 NH2 ARG D 391 45.682 110.100 56.481 1.00 39.96 N ATOM 14131 C ARG D 391 45.682 110.100 36.481 1.00 39.96 N ATOM 14132 O ARG D 391 46.624 106.037 60.774 1.00 18.88 C ATOM 14133 C ARG D 391 47.399 106.881 61.144 1.00 18.53 O ATOM 14135 CA AUL D 392 45.350 106.198 62.827 1.00 19.28 N ATOM 14137 CB VAL D 392 45.350 106.198 62.827 1.00 19.47 C ATOM 14139 CGI VAL D 392 43.740 106.387 63.400 1.00 19.47 C ATOM 14143 CGI VAL D 392 43.740 106.387 64.752 1.00 19.77 C ATOM 14148 O VAL D 392 46.523 105.888 63.790 1.00 20.35 C ATOM 14148 O VAL D 392 47.021 106.782 64.482 1.00 20.35 C ATOM 14151 CA GUD D 393 46.986 104.639 63.776 1.00 21.57 C ATOM 14151 CA GUD D 393 48.068 104.639 65.063 1.00 21.57 C ATOM 14151 CA GUD D 393 49.519 100.549 65.063 1.00 21.57 C ATOM 14160 CEI GUD D 393 49.519 100.549 65.063 1.00 21.57 C ATOM 14161 CE GUD D 393 49.519 100.549 65.063 1.00 21.57 C ATOM 14161 CE GUD D 393 49.519 100.549 65.065 65.247 1.00 25.56 C ATOM 14161 CE GUD D 393 49.519 100.549 66.055 1.00 31.45 C ATOM 14161 CE GUD D 393 49.519 100.549 66.055 1.00 31.45 C ATOM 14164 C ALB D 394 49.519 100.549 66.055 1.00 21.24 C ATOM 14164 C ALB D 394 49.519 100.549 66.055 65.927 1.00 20.59 C ATOM 14164 C ALB D 394 49.519 100.549 66.055 63.927 1.00 20.59											1.00	19.79		
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ATOM 14143 CG2 VAL D 392	MOTA													C
ATOM 14147 C VAL D 392	MOTA	14139												C
ATOM 14149 O VAL D 392	ATOM	14143	CG2											C
ATOM 14159 N GLU D 393	ATOM	14147	С											
ATOM 14151 CA GLU D 393	ATOM	14148	0											
ATOM 14153 CB CLU D 393	MOTA	14149	N	GLU	D	393	46.	988	104.639					
ATOM 14156 CG GLU D 393	ATOM	14151	CA	GLU	D	393	48.	068	104.174	64.638	1.00	21.57		С
ATOM 14156 CG GLU D 393	ATOM		CB	GLU	D	393	48.	298	102.681	64.426	1.00	22.36		С
ATOM 14159 CD GLU D 393							49.	419	102.065	65.247	1.00	25.56		С
ATOM 14160 OE1 GLU D 393											1.00	29.06		С
ATOM 14161 OE2 GLU D 393														
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ATOM 14214 CB GLN D 397 53.829 106.839 66.275 1.00 19.92 C ATOM 14217 CG GLN D 397 55.225 106.447 66.705 1.00 22.13 C ATOM 14220 CD GLN D 397 56.027 105.832 65.573 1.00 24.57 C ATOM 14221 OE1 GLN D 397 55.676 104.737 65.095 1.00 27.99 O ATOM 14222 NE2 GLN D 397 57.090 106.521 65.130 1.00 22.32 N ATOM 14225 C GLN D 397 53.790 108.884 67.776 1.00 18.93 C ATOM 14226 O GLN D 397 54.280 108.948 68.882 1.00 18.95	ATOM	14210	N	${\tt GLN}$	D	397				66.981	1.00	19.67	•	
ATOM 14217 CG GLN D 397 55.225 106.447 66.705 1.00 22.13 C ATOM 14220 CD GLN D 397 56.027 105.832 65.573 1.00 24.57 C ATOM 14221 OE1 GLN D 397 55.676 104.737 65.095 1.00 27.99 O ATOM 14222 NE2 GLN D 397 57.090 106.521 65.130 1.00 22.32 N ATOM 14225 C GLN D 397 53.790 108.884 67.776 1.00 18.93 C ATOM 14226 O GLN D 397 54.280 108.948 68.882 1.00 18.95	ATOM	14212	CA	GLN	D	397				67.358				
ATOM 14217 CG GLN D 397 55.225 106.447 66.705 1.00 22.13 C ATOM 14220 CD GLN D 397 56.027 105.832 65.573 1.00 24.57 C ATOM 14221 OE1 GLN D 397 55.676 104.737 65.095 1.00 27.99 O ATOM 14222 NE2 GLN D 397 57.090 106.521 65.130 1.00 22.32 N ATOM 14225 C GLN D 397 53.790 108.884 67.776 1.00 18.93 C ATOM 14226 O GLN D 397 54.280 108.948 68.882 1.00 18.95	MOTA						53	.829	106.839					
ATOM 14220 CD GLN D 397 56.027 105.832 65.573 1.00 24.57 C ATOM 14221 OE1 GLN D 397 55.676 104.737 65.095 1.00 27.99 O ATOM 14222 NE2 GLN D 397 57.090 106.521 65.130 1.00 22.32 N ATOM 14225 C GLN D 397 53.790 108.884 67.776 1.00 18.93 C ATOM 14226 O GLN D 397 54.280 108.948 68.882 1.00 18.95 O			CG				55	.225	106.447	66.705				
ATOM 14221 OE1 GLN D 397 55.676 104.737 65.095 1.00 27.99 O ATOM 14222 NE2 GLN D 397 57.090 106.521 65.130 1.00 22.32 N ATOM 14225 C GLN D 397 53.790 108.884 67.776 1.00 18.93 C ATOM 14226 O GLN D 397 54.280 108.948 68.882 1.00 18.95 O											1.00	24.57		
ATOM 14222 NE2 GLN D 397 57.090 106.521 65.130 1.00 22.32 N ATOM 14225 C GLN D 397 53.790 108.884 67.776 1.00 18.93 C ATOM 14226 O GLN D 397 54.280 108.948 68.882 1.00 18.95 O														
ATOM 14225 C GLN D 397 53.790 108.884 67.776 1.00 18.93 C ATOM 14226 O GLN D 397 54.280 108.948 68.882 1.00 18.95 O														
ATOM 14226 O GLN D 397 54.280 108.948 68.882 1.00 18.95 O														

ATOM ATOM	14228 14230	CB ·	PRO PRO	D	398	54	.289	111.125 112.146	67.343 66.236	1.00	17.79		C
MOTA	14233		PRO					111.502	65.290	1.00			C
MOTA	14236		PRO PRO					110.017 1 111.678	65.574 68.711	1.00			C
ATOM ATOM	14239 14240		PRO .					112.182	69.418	1.00			Ö
ATOM	14241		TYR					111.601	69.065	1.00			N
ATOM	14243		TYR					112.085	70.360	1.00	17.76	•	С
MOTA	14245	CB	TYR	D	399			112.210	70.347	1.00	17.88	•	С
MOTA	14248		TYR					113.203	69.330	1.00	18.22		C
MOTA	14249							112.788	68.120	1.00	18.17		C
MOTA	14251		TYR TYR					113.688 115.031	67.186 67.443	1.00	17.27		<u>ر</u>
MOTA MOTA	14253 14254	CZ OH	TYR					115.051	66.493		17.86		õ
ATOM	14254		TYR					115.469	68.641		17.94		Č
ATOM	14258		TYR					114.560	69.566		18.61	•	С
ATOM	14260	C	TYR					111.231	71.536	1.00	17.45		С
MOTA	14261	0	TYR					111.781	72.563		17.11		0
MOTA	14262	N	VAL					109.903	71.383		17.74		N
MOTA	14264	CA	VAL					108.999	72.372 71.998		18.33. 18.16		C
ATOM ATOM	14266 14268	CB CG1	VAL VAL					107.504 106.663	73.066		18.08		C
ATOM	14272		VAL					107.048	71.791		18.79		č
ATOM	14276	C			400			109.321	72.540		19.34		C
MOTA	14277	0			400	55	.375	109.541	73.667		20.53		0
MOTA	14278	N			401			109.327	71.456		19.54		N
ATOM	14280	CA			401			109.730	71.513		20.05		C
MOTA	14282	CB			401			109.846 108.538	70.103 69.449		20.71 23.83	•	C.
ATOM ATOM	14285 14288	CG CD			401 401			108.536	67.962		27.86		c
ATOM	14289	OE1			401			107.761	67.168		29.33	•	ŏ
ATOM	14290							109.693	67.572		30.78		0
MOTA	14291	С			401			111.067	72.235		19.70		C
MOTA	14292	0			401			111.258	72.944		19.28		0
MOTA	14293	N			402			111.996	72.026		19.60		N
MOTA MOTA	14295 14297	CA CB			402 402			113.336 114.281	72.554 71.874		19.82 19.93		č
ATOM	14301	CP			402			113.321	74.046		19.90		Č
ATOM	14302	ŏ			402			114.027	7.4.790		19.68		Ō
ATOM	14303	N			403			112.516	74.486	1.00	20.33		N
MOTA	14305	CA			403			112.341	75.932		20.21	•	С
ATOM	14307	CB			403			111.622	76.156		19.89		000
ATOM ATOM	14310 14312	CD1	LEU		403	5.	3.2/2	111.494	77.583 78.312		19.78 19.37		C
ATOM	14316		LEU			5	928	110.778	77.535		20.17		Č
ATOM	14320	C			403			111.598	76.628		20.40		Ċ
ATOM	14321	0			403	5	6.647	111.944	77.744		19.78		0
MOTA	14322	N			404			110.599	75.940		20.87		N
MOTA	14324	CA			404	5	7.922	109.874	76.446		21.50		C.
MOTA	14326	CB CG			404 404		3.307	108.735 107.976	75.505 75.858		22.00 23.85		C
ATOM ATOM	14329 14331		LEU					107.648	77.336		24.72		C
ATOM	14335		LEU					106.722	75.012		25.57		č
MOTA	14339	С			404			110.849	76.629		21.29		С
ATOM	14340	0			404			110.981	77.735		21.48		0
MOTA	14341	N			405			111.540	75.562		21.06		N
MOTA	14343 14345	CA			405			112.515 113.286	75.675 74.361		20.85 20.96		C
MOTA MOTA	14345	CB OG			405			113.286	73.240		20.96	-	0
ATOM	14350	C			405			113.517	76.784		20.13		č
MOTA	14351	ō			405			113.797			19.94		Ō
			•			•							

	ATOM	14352	N	ΨYR	ח	406	59 011	114.024	76.798	1.00 19	. 45		
	ATOM	14354	CA			406		115.094	77.702	1.00 18		N C	
	MOTA	14356	CB			406		115.627	77.432	1.00 18		Ö	
	MOTA	14359	CG			406		116.741	78.386	1.00 17		Č	
	MOTA	14360	CD1			406	57.171	118.076	78.109	1.00 15		Č	
	MOTA	14362		TYR				119.082	78.995	1.00 14		C	
	MOTA	14364	CZ			406		118.754	80.188	1.00 16	5.13	Ċ	;
	MOTA	14365	ОН			406		119.695	81.104	1.00 14		O)
	ATOM	14367		TYR				117.447	80.482	1.00 16		C	;
	ATOM	14369	CD2			406		116.453	79.584	1.00 16		C	,
	MOTA	14371	C			406		114.666	79.142	1.00 19		C	
	ATOM ATOM	14372 14373	O N			406 407		115.485	79.976	1.00 19		O	
	ATOM	14375	CA			407		113.396 112.931	79.444 80.835	1.00 20		N	
	ATOM	14377	CB			407		111.698	81.056	1.00 21		C	
	ATOM	14379	OG1			407		110.613	80.169	1.00 20		0	
	ATOM	14381	CG2			407		112.054	80.756	1.00 19		Ö	
	MOTA	14385	С			407		112.630	81.289	1.00 22		Ö	
	MOTA	14386	0	THR	D	407		112.953	82.408	1.00 22		. 0	
	MOTA	14387	N			408		112.039	80.403	1.00 24		N	
	ATOM	14389	CA			408		111.730	80.698	1.00 26	5.24	C	;
	ATOM	14391	CB			408		111.078	79.486	1.00 26		C	;
	ATOM	14394	CG		_	408		111.225	79.434	1.00 30		C	
	ATOM ATOM	14397 14400	CD NE			408 408		110.223	78.489	1.00 34		C	
	ATOM	14400	CZ			408		108.944 108.681	78.269	1.00 37		N	
	ATOM	14403		ARG				109.603	77.252 76.318	1.00 38		C	
	ATOM	14406		ARG				107.486	77.169	1.00 37		N	
	ATOM	14409	C			408		112.997	81.095	1.00 37		N C	
	MOTA	14410	0			408		112.956	81.959	1.00 27		Ö	
	ATOM	14411	N	ILE	D	409		114.115	80.464	1.00 28		N	
	ATOM	14413	CA			409		115.424	80.630	1.00 29		Ċ	
	ATOM	14415	CB	ILE	D	409		116.182	79.281	1.00 29	.21	Ċ	
	MOTA	14417	CG1	ILE	D	409		115.730	78.431	1.00 29		С	
	ATOM	14420		ILE				116.098	76.959	1.00 29		С	
	ATOM ATOM	14424 14428		ILE		409 409		117.705	79.493	1.00 29		С	
	ATOM	14429	С 0			409		116.276 116.746	81.765	1.00 29		C	
	ATOM	14430	N			410		116.746	82.592 81.800	1.00 29 1.00 30		0	
	ATOM	14432	CA			410		117.179	82.918	1.00 32	0.09	И С	
	ATOM	14434	СВ			410		117.161	82.774	1.00 32		C	
	ATOM	14437	CG			410		117.327	84.113	1.00 32		Č	
	MOTA	14440	CD			410		116.581	84.104	1.00 31	65	č	
	ATOM	14443	CE	LYS				117.260	85.007	1.00 30		С	
	ATOM	14446	NZ			410		117.221	86.431	1.00 28		N	
	ATOM	14450	C			410		116.538	84.243	1.00 33		C	
	MOTA MOTA	14451 14452	O N			410		117.206	85.148	1.00 33		0	
	ATOM	14454	CA	ARG		411		115.245 114.520	84.363	1.00 34		Ŋ	
	ATOM	14456	CB			411		114.520	85.639	1.00 35		C	
	ATOM	14459	CG	ARG				115.071	86.094 86.893	1.00 36 1.00 39		C	
	ATOM	14462	CD	ARG				114.617	88.323	1.00 33		C	
	ATOM	14465	NE	ARG				114.515	88.483	1.00 47		N	
	MOTA	14467	CZ			411		114.009	89.559	1.00 50		C	
	MOTA	14468		ARG			56.695	113.552	90.609	1.00 50		N	
	MOTA	14471		ARG				113.974	89.588	1.00 50	.69	N	
	MOTA	14474	C			411		113.306	85.530	1.00 35		C	
	MOTA	14475	0			411		112.168	85.573	1.00 35		0	
	ATOM ATOM	14476	N Ch			412		113.518	85.419	1.00 35		N	
	ATOM	14477 14479	CA CB			412 412		112.390 113.049	85.140	1.00 35		C	
_			<u> </u>	LINO	<u> </u>	314	05.249	113.049	85.043	1.00 35	.48	C	

MOTA	14482	CG	PRO) D	412	65.101 114.467 85.498 1.00 35.29
ATOM	14485	CD	PRC	ם	412	63.656 114.800 85.575 1.00 35.29
ATOM	14488	C			412	63.811 111.271 86.211 1.00 35.66
MOTA	14489	0			412	64.209 110.132 85.929 1.00 35.74
ATOM	14490	N			413	63.280 111.594 87.394 1.00 35.64
ATOM ATOM	14492 14494	CA			413	63.360 110.739 88.585 1.00 35.41
ATOM	14494	CB CG			413	63.624 111.604 89.827 1.00 35.43
ATOM	14500	CD			413	64.420 112.883 89.582 1.00 35.38 65.705 112.904 90.352 1.00 35.03
ATOM	14501	OE1			413	
ATOM	14502	NE2	GLN	ı D	413	65.725 113.297 91.515 1.00 34.71 66.788 112.476 89.712 1.00 35.14
ATOM	14505	С			413	62.107 109.877 88.846 1.00 35.14
MOTA	14506	0			413	62.034 109.185 89.868 1.00 35.15
ATOM	14507	N			414	61.124 109.937 87.952 1.00 34.61
ATOM	14509	CA			414	59.931 109.106 88.057 1.00 34.34
ATOM	14511	СВ			414	58.702 109.985 88.325 1.00 34.59
ATOM ATOM	14514	CG	ASP	ם י	414	57.478 109.181 88.766 1.00 35.67
ATOM	14515 14516	OD3	ASE	ם י	414	57.651 108.168 89.474 1.00 35.66
ATOM	14517	C			414	56.296 109.494 88.467 1.00 37.51 59.774 108.314 86.762 1.00 33.63
ATOM	14518	Õ			414	
ATOM	14519	N			415	59.101 108.754 85.850 1.00 33.48 60.427 107.159 86.676 1.00 33.06
ATOM	14521	CA			415	60.407 106.343 85.453 1.00 32.58
ATOM	14523	CB	GLN	D	415	61.481 105.242 85.500 1.00 32.89
MOTA	14526	CG			415	62.742 105.530 84.689 1.00 33.42
ATOM	14529	CD			415	63.769 104.401 84.790 1.00 34.07
MOTA	14530				415	63.678 103.410 84.069 1.00 34.50
ATOM ATOM	14531 14534	NE2 C			415	64.742 104.551 85.685 1.00 34.30
ATOM	14535	0			415 415	
ATOM	14536	N			416	58.685 105.460 84.044 1.00 31.77 58.268 105.459 86.268 1.00 30.95
ATOM	14538	CA			416	
MOTA	14540	CB			416	56.920 104.880 86.177 1.00 30.43 56.521 104.222 87.489 1.00 30.43
MOTA	14543	CG	LEU	D	416	57.531 103.266 88.119 1.00 31.29
ATOM	14545	CD1	LEU	D	416	57.081 102.858 89.539 1.00 31.25
ATOM	14549				416	57.737 102.053 87.210 1.00 31.92
ATOM ATOM	14553 14554	C			416	55.839 105.898 85.858 1.00 29.89
ATOM	14555	O N			416 417	54.700 105.549 85.668 1.00 30.26
ATOM	14557	CA			417	56.192 107.166 85.845 1.00 29.36
ATOM	14559	CB			417	55.268 108.235 85.513 1.00 28.75 56.056 109.542 85.476 1.00 29.25
ATOM	14562	CG			417	56.056 109.542 85.476 1.00 29.25 55.308 110.758 85.888 1.00 31.25
MOTA	14565	CD			417	55.780 112.009 85.138 1.00 33.19
ATOM	14568	NE	ARG	D	417	55.266 113.199 85.785 1.00 34.76
ATOM	14570	CZ			417	53.993 113.513 85.807 1.00 37.31
ATOM	14571	NH1				53.109 112.745 85.184 1.00 39.76
ATOM ATOM	14574 14577	NH2				53.588 114.610 86.426 1.00 38.44
MOTA	14578	С 0			417 417	54.618 107.990 84.148 1.00 27.48
ATOM	14579	N			418	53.385 107.942 84.021 1.00 27.07
ATOM	14581	CA			418	55.457 107.834 83.127 1.00 25.85 54.958 107.667 81.766 1.00 24.54
MOTA	14583	СВ			418	
MOTA	14586	CG	PHE	D	418	56.122 107.534 80.769 1.00 24.61 55.696 107.188 79.378 1.00 23.32
ATOM	14587		PHE	D	418	54.917 108.078 78.641 1.00 22.26
ATOM	14589	CE1	PHE	D	418	54.518 107.786 77.357 1.00 22.16
MOTA	14591	CZ	PHE	D	418	54.891 106.587 76.783 1.00 24.31
ATOM ATOM	14593 14595	CE2	PHE	D	418	55.679 105.676 77.526 1.00 25.48
ATOM	14595	CD2 C	PHE			56.076 105.989 78.810 1.00 23.20
ATOM	14598	0	PHE			53.974 106.500 81.655 1.00 23.42 52.875 106.688 81.148 1.00 22.44
ATOM	14599	Ŋ	PRO			
				_		54.361 105.298 82.096 1.00 22.50

MOTA	14600	CA	PRO	D	419	53.44	3 104.152	82.092	1.00 21.99	
ATOM	14602	CB			419		102.995	82.532		C
MOTA	14605	CG	PRO				103.565	83.062	1.00 21.81	C
ATOM	14608	CD			419	55 71	104.889		1.00 22.24	С
ATOM	14611	C			419	52 10	3 104.274	82.483	1.00 22.02	C
ATOM	14612	ŏ			419			82.958	1.00 21.58	С
ATOM	14613	N			420	21.16	103.814	82.550	1.00 20.83	0
ATOM	14615	CA				52.26	7 104.906	84.102	1.00 21.99	N
ATOM					420		105.174	84.843	1.00 23.26	С
	14617	CB			420	51.34	9 105.893	86.160	1.00 23.88	Ċ
ATOM	14620	CG			420		104.968	87.251	1.00 26.16	č
ATOM	14623	CD			420	51.849	9 105.581	88.622	1.00 29.60	č
ATOM	14626	NE	ARG			53.00	105.155	89.403	1.00 32.35	Ň
MOTA	14628	CZ			420	54.07	9 105.901	.89.662	1.00 35.11	C
ATOM	14629	NH1	ARG	D	420	54.19	7 107.158	89.217	1.00 35.49	Ŋ
ATOM	14632	NH2	ARG			55.05	5 105.378	90.398	1.00 36.26	
MOTA	14635	C	ARG	D	420	50.03	7 106.008	84.047	1.00 23.47	N
ATOM	14636	0	ARG	D	420	48.82	105.857	84.213	1.00 23.23	C
MOTA	14637	N	MET	D	421		106.904	83.205	1.00 23.23	0
MOTA	14639	CA			421		107.759	82.417	1.00 23.89	. N
ATOM	14641	CB			421		108.942	81.815		C
MOTA	14644	CG	MET	D	421		109.808		1.00 24.93	C
ATOM	14647	SD			421	52 12	2 111.087	82.828	1.00 26.72	С
ATOM	14648	CE			421	50 040	111.067	82.001	1.00 29.13	S
ATOM	14652	C			421			81.119	1.00 31.24	С
ATOM	14653	ŏ			421	49.010	106.984	81.306	1.00 23.71	С
ATOM	14654	N			422		107.178	81.053	1.00 23.34	0
ATOM	14656	CA	TEU	ח	422	49.778	106.117	80.636	1.00 23.83	N
ATOM	14658	CB	LEU			49.211	105.221	79.611	1.00 23.76	С
ATOM	14661	CG	LEU				104.347	78.963	1.00 23.64	С
ATOM	14663		LEU	ט	422	51.351	105.058	78.132	1.00 24.63	С
ATOM	14667	CDI	LEU	ח	422	52.224	104.051	77.470	1.00 26.16	С
ATOM						50.771	105.927	77.085	1.00 25.19	C
	14671	C	LEU			48.141	104.335	80.217	1.00 23.44	Ċ
ATOM	14672	0	LEU	D	422	47.150	104.031	79.586	1.00 23.45	ō
ATOM	14673	N	MET				103.952	81.464	1.00 23.51	Ŋ
ATOM	14675	CA	MET			47.413	103.037	82.103	1.00 23.89	Ĉ
ATOM	14677	CB	MET			48.065	102.407	83.324	1.00 24.92	č
ATOM	14680	CG	MET			48.117	100.894	83.262	1.00 29.02	č
ATOM	14683	SD	MET	D	423	49.756	100.266	82.996	1.00 36.10	Š
ATOM	14684	CE	MET			50.270	100.108	84.644	1.00 35.85	ç
ATOM	14688	C	MET			46.125	103.730	82.488	1.00 22.97	Ċ
ATOM	14689		MET			45.111	103.097	82.699	1.00 22.90	ő
ATOM	14690	N	LYS			46.131	105.042	82.569	1.00 22.20	
MOTA	14692		LYS			44.872	105.722	82.782	1.00 21.40	И
ATOM	14694		LYS			45.105	107.150	83.278	1.00 21.57	C
ATOM	14697	CG	LYS	D	424	45.961	107.252	84.560	1.00 21.85	
ATOM	14700	CD	LYS	D	424	45.176	106.906	85.803	1.00 23.55	C
ATOM	14703	CE	LYS	D	424	46.086	106.499	86.958	1.00 26.09	C
MOTA	14706		LYS			46.502	105.039	86.931	1.00 26.09	C
ATOM	14710		LYS			44.026	105.664		1.00 25.70	N
MOTA	14711		LYS			42.799	105.745	81.485 81.557	1.00 20.77	С
ATOM	14712		LEU			44 655	105.745	01.33/	1.00 20.70	0
ATOM	14714		LEU			009 FV	105.269	80.311	1.00 19.71	N
ATOM	14716	CB	LEU	ח	425	44 767	105.259	79.056	1.00 19.37	C
ATOM	14719	CG	LEU	ח	425	45.707	105.258	77.786	1.00 19.22	C
ATOM	14721	CD1	LEU	Ď	425	42.031	106.510	77.569	1.00 19.46	C
ATOM	14725	CDS	LEU	ח	425	40./41	106.209	76.606	1.00 20.06	С
ATOM	14729		LEU :			44.193	107.672	77.105	1.00 18.98	C
ATOM	14730		LEU			43.117	103.956	79.138	1.00 18.66	C
ATOM	14731					42.UI5	103.834	78.597	1.00 18.91	0
ATOM	14733	CA	VAL :	ע	420	43.704	102.982	79.828	1.00 17.67	N
	~ 14735 —		VAL_			43.076	101.685	80.040	1.00 16.70	C
041	T-1100-				420_	44.030	100.736	80.747	1.00 16.59	Ċ
										-

ATOM		CG1	VAL	D 426		43.374		80.951	1.00 16.22	
ATOM				D 426			100.574	79.950	1.00 16.64	
ATOM ATOM		.C		D 426			101.872	80.897	1.00 16.09	
MOTA		O N		D 426		40.722	101.485	80.524	1.00 14.69	
ATOM				D 427 D 427			102.505 102.904	82.044	1.00 15.87	
ATOM		CB		D 427			102.904	82.897 84.032	1.00 16.06	
MOTA		ŌĞ		D 427			102.987	84.849	1.00 15.33	
MOTA		C		D 427			103.624	82.127	1.00 15.12 1.00 16.35	
MOTA		0		D 427	•		103.373	82.353	1.00 15.56	
MOTA		N		D 428			104.493	81.210	1.00 13.30	
ATOM		CA		D 428		39.234	105.305	80.471	1.00 18.87	
ATOM		СВ		D 428			106.401	79.629	1.00 19.18	
ATOM ATOM		CG	LEU				107.614	80.448	1.00 19.96	
ATOM		CDI	TEO	D 428 D 428		41.417	108.412	79.734	1.00 21.00	
ATOM		CD2		D 428		39.153	108.468	80.740	1.00 21.25	
ATOM		Ö		D 428		38.334	104.440 104.791		1.00 19.28	
ATOM	14777			D 429				79.387 79.085	1.00 19.13	
ATOM	14779	CA		D 429		37.989	102.374	78.371	1.00 19.93 1.00 20.40	
ATOM	14781	CB	ARG	D 429		38.795	101.180	77.848	1.00 20.40	
MOTA	14784	CG		D 429		39.753	101.536	76.746	1.00 20.68	
ATOM	14787	CD		D 429		39.084	102.241	75.590	1.00 22.12	
MOTA	14790	NE	ARG				102.849	74.663	1.00 23.03	
ATOM ATOM	14792 14793	CZ	ARG	D 429		40.429	102.299	73.527	1.00 23.00	
ATOM	14796	NHT	ARG	D 429 D 429		39.960	101.113	73.155	1.00 22.44	
ATOM	14799	C		D 429		41.294	102.948	72.758	1.00 22.24	
ATOM	14800	Ö	ARG	D 429		35 725	101.892 102.054	79.269	1.00 20.37	
ATOM	14801	N		D 430		37.241	101.304	78.975 80.388	1.00 20.47 1.00 20.88	
ATOM	14803	CA	THR	D 430			100.795	81.311	1.00 20.88	
ATOM	14805	CB	THR	D 430			100.260	82.527	1.00 20.78	
MOTA	14807	OG1	THR	D 430		37.642	99.059	82.162	1.00 20.52	
ATOM ATOM	14809 14813			D 430		35.968	99.830	83.570	1.00 21.13	
ATOM	14814	С 0		D 430 D 430		35.223	101.833	81.709	1.00 20.95	
ATOM	14815	N		D 430		34.040	101.505	81.732	1.00 21.43	
ATOM	14817	CA		0 431		34 749	103.061 104.140	82.031	1.00 20.54	
ATOM	14819	СВ	LEU I	0 431		35.526	105.346	82.477 83.034	1.00 20.19	
ATOM	14822	CG	LEU I	0 431		36.303	105.113	84.328	1.00 20.21 1.00 20.32	
ATOM	14824		LEU I			37.465	106.062	84.469	1.00 20.58	
ATOM	14828				٠	35.395	105.222	85.522	1.00 21.74	
ATOM ATOM	14832 14833	C	LEU I			33.825	104.619	81.356	1.00 20.15	
ATOM	14834	O N	LEU I				105.037	81.613	1.00 20.28	
MOTA	14836	CA	SER I				104.570			
ATOM	14838	CB	SER I			33.434	104.740 104.563	78.954	1.00 20.33	
ATOM	14841	ŌĞ	SER I			33.496	104.363	77.686 76.542	1.00 20.57	
MOTA	14843	С		432			103.754	78.949	1.00 22.05 1.00 20.25	
ATOM	14844	0	SER I	432		31.147	104.144	78.686	1.00 20.25	
ATOM	14845	N	SER D			32.543	102.483	79.241	1.00 20.49	
MOTA	14847	CA	SER I			31.457	101.503	79.409	1.00 21.09	
ATOM ATOM	14849		SER I			31.982		79.627	1.00 20.76	
MOTA	14852 14854		SER D			32.633	99.597	78.477	1.00 21.59	
ATOM	14855		SER D			30.523	101.866	80.575	1.00 21.52	
ATOM	14856		VAL D			29.292 31.098		80.455	1.00 21.68	
MOTA	14858	CA	VAL	434		30.290		81.703	1.00 21.43	
ATOM	14860	CB	VAL D	434		31.151	102.911	82.880 84.139	1.00 21.01	
ATOM	14862	CG1	VAL D	434		30.306	103.477	85.278	1.00 20.94 1.00 19.93	
ATOM	14866	CG2	VAL D	434		31.849	101.639	84.591	1.00 19.93	

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	14871 14872 14874 14876 14879 14880 14882 14884 14886	C VAL D 434 O VAL D 434 N HIS D 435 CA HIS D 435 CB HIS D 435 CG HIS D 435 ND1 HIS D 435 NE2 HIS D 435 CE1 HIS D 435 CD2 HIS D 435 C HIS D 435 C HIS D 435 O HIS D 435 O HIS D 435 O HIS D 436 C SER D 436 CA SER D 436 CB SER D 436 O SER D 437 CA GLU D 437	29.340 103.749 82.2 28.181 103.740 82.2 29.812 104.690 81.2 28.947 105.756 81.2 29.755 106.781 80.2 28.948 107.955 79.3 28.610 108.153 78.3 27.899 109.261 78.3 27.768 109.787 79.3 28.412 108.989 80.3 27.785 105.218 80.3 26.653 105.667 80.3 27.048 103.693 78.3 27.048 103.693 78.3 27.635 102.613 77.6 28.544 103.161 76.3 28.544 103.161 76.3 28.544 103.265 79.3 24.731 103.265 79.3 24.731 103.265 79.3 25.248 101.785 81.3	932 1.00 20.75 709 1.00 20.77 223 1.00 20.87 437 1.00 20.96 983 1.00 20.27 664 1.00 19.83 564 1.00 19.82 673 1.00 19.48 364 1.00 21.06 513 1.00 21.06 513 1.00 22.25 573 1.00 22.25 573 1.00 22.25 674 1.00 22.26 876 1.00 23.00 904 1.00 22.72 942 1.00 24.39 936 1.00 25.46
MOTA	14905	CB GLU D 437 CG GLU D 437	25.886 100.835 82.3 26.469 99.507 81.8	
ATOM	14911	CD GLU D 437	27.834 99.149 82.4	
MOTA ATOM	14912 14913	OE1 GLU D 437 OE2 GLU D 437	28.743 98.623 81.7	792 1.00 35.86
ATOM	14914	C GLU D 437	28.027 99.402 83.7 24.473 102.911 82.0	
MOTA	14915	O GLU D 437	24.473 102.911 82.0 23.283 102.795 82.2	
MOTA	14916	N GLN D 438	25.149 104.004 82.3	391 1.00 25.86
MOTA MOTA	14918 14920	CA GLN D 438 CB GLN D 438	24.489 105.178 82.9	
ATOM	14923	CG GLN D 438	25.511 106.198 83.5 24.913 107.543 84.0	
ATOM	14926	CD GLN D 438	23.981 107.423 85.2	
MOTA	14927	OE1 GLN D 438	24.329 107.882 86.3	341 1.00 23.20
ATOM ATOM	14928 14931	NE2 GLN D 438 C GLN D 438	22.802 106.843 85.0	78 1.00 20.30
ATOM	14932	O GLN D 438	23.476 105.859 82.0 22.394 106.234 82.4	
ATOM	14933	N VAL D 439	23.790 106.006 80.7	
ATOM ATOM	14935	CA VAL D 439	22.793 106.566 79.8	25 1.00 29.01
ATOM	14937 14939	CB VAL D 439 CG1 VAL D 439	23.380 107.177 78.5	03 1.00 28.96
MOTA	14943	CG2 VAL D 439	24.868 107.455 78.6 23.059 106.329 77.2	
ATOM	14947	C VAL D 439	21.681 105.562 79.5	
MOTA MOTA	14948 14949	O VAL D 439	20.596 105.959 79.1	18 1.00 30.22
	14949	N PHE D 440 CA PHE D 440	21.948 104.275 79.7	07 1.00 30.95
MOTA	14953	CB PHE D 440	20.925 103.243 79.5 21.595 101.873 79.3	
ATOM	14956	CG PHE D 440	20.629 100.727 79.1	
MOTA MOTA	14957	CD1 PHE D 440	20.052 100.503 77.8	70 1.00 33.02
ATOM	14959 14961	CE1 PHE D 440 CZ PHE D 440	19.169 99.434 77.6	79 1.00 33.73 .
ATOM	14963	CE2 PHE D 440	18.864 98.571 78.7 19.440 98.780 79.9	
ATOM	14965	CD2 PHE D 440	20.323 99.850 80.1	
ATOM ATOM	14967	C PHE D 440	19.955 103.201 80.7	28 1.00 32.06
ATOM	14968 14969	O PHE D 440 N ALA D 441	18.838 102.719 80.5	88 1.00 32.15
ATOM	14971	CA ALA D 441	20.370 103.711 81.8 19.538 103.664 83.0	
MOTA	14973	CB ALA D 441	20.377 103.888 84.3	
ATOM ATOM	14977	C ALA D 441	18.414 104.696 83.0	10 1.00 33.50
ATOM	14978 14979	O ALA D 441 N LEU D 442	17.235 104.359 83.1	61 1.00 33.86
ATOM	14981	CA LEU D 442	18.786 105.952 82.7 17.814 107.021 82.5	
			02.0	

ATOM ATOM ATOM ATOM ATOM	15011 15013 15014 15017 15020		ARG ARG ARG ARG ARG	D 44 D 44 D 44	18.456 103.611 74.053 1.00 41.64 19.564 103.859 74.761 1.00 41.55 18.553 103.465 72.739 1.00 41.66
MOTA	15021	0	ARG	D 44	15.027 104.153 80.001 1.00 35.94
ATOM	15022	N	LYS		15.998 111.025 79.247 1.00 25.17
ATOM ATOM	15024	CA	LYS		
	15026 15029	CB CG	LYS LYS		
ATOM	15032	CD	LYS		
MOTA	15035	CE	LYS	D 44	12.612 108.584 78.394 1.00 24.27
ATOM	15038	NZ	LYS		11.754 108.554 79.610 1.00 23.62
ATOM ATOM	15042 15043	C	LYS		
ATOM	15043	N	LYS LEU		
ATOM	15046	CA	LEU		
MOTA	15048	CB .	LEU		20.559 111.864 75.806 1.00 25.94
MOTA	15051	CG	LEU		21.493 111.168 76.782 1.00 26.55
MOTA	15053		LEU		
ATOM ATOM	15057 15061	CD2 C	LEU LEU		
ATOM	15062	Õ	LEU		
ATOM	15063		PRO		
	15064	CA	PRO		19.144 115.863 74.308 1.00 26.76
ATOM	15066	CB	PRO		
ATOM ATOM	15069 15072	CG CD	PRO PRO		
ATOM	15072	CD	PRO		
ATOM	15076	Ö	PRO		
ATOM	15077	N	PRO		19.251 115.714 71.852 1.00 27.50
ATOM	15078	CA	PRO		19.740 115.142 70.583 1.00 27.73
ATOM ATOM	15080 15083	CB	PRO		
ATOM	15086	CG CD	PRO PRO		
ATOM	15089	C	PRO		
ATOM	15090	0	PRO		21.815 114.398 69.720 1.00 28.24
MOTA	15091	N	LEU .		21.842 116.403 70.760 1.00 28.06
MOTA	15093	CA	LEU		
ATOM ATOM	15095 15098	CB CG	LEU . LEU		
ATOM	15100		LEU		
ATOM	15104		LEU		
MOTA	15108	C	LEU	D 45	24.161 115.589 71.170 1.00 28.18
	15109	0	LEU		25.193 115.191 70.625 1.00 28.53
MOTA		NT.	י דוקו ד	D 45	
ATOM ATOM	15110	N			
ATOM ATOM ATOM	15112	CA	LEU	D 45	24.408 114.059 73.097 1.00 27.60
ATOM ATOM ATOM ATOM	15112 15114	CA CB	LEU	D 45 D 45	24.408 114.059 73.097 1.00 27.60 24.267 114.294 74.599 1.00 27.44
ATOM ATOM ATOM	15112	CA CB CG	LEU	D 45 D 45 D 45	24.408 114.059 73.097 1.00 27.60 24.267 114.294 74.599 1.00 27.44 24.831 115.612 75.121 1.00 26.81

ATOM	15123	CD2	LEU	D	453	26.325 1	15.688	74.855	1.00 26.44		С
MOTA	15127		LEU			23.876 1		72.768	1.00 27.82		С
ATOM	15128		LEU			24.595 1		72.906	1.00 27.68		0
ATOM	15129		SER			22.619 1		72.340	1.00 28.20		N
			SER			22.003 1		71.948	1.00 28.50		C
ATOM	15131							71.754	1.00 28.31		č
MOTA	15133		SER			20.494 1					Ö
MOTA	15136	OG	SER			19.990 1		70.781	1.00 28.47		
MOTA	15138	С	SER			22.648 1		70.681	1.00 28.88		С
ATOM	15139	0	SER			22.639 1		70.480	1.00 28.85		0
MOTA	15140	N	GLU			23.225 1		69.845	1.00 29.68		N
MOTA	15142	CA	GLU			23.884 1		68.620	1.00 30.43		C
MOTA	15144	CB	GLU	D	455	24.142 1		67.664	1.00 30.88		С
ATOM	15147	CG	GLU			23.906 1		66.179	1.00 33.31	-	С
MOTA	15150	CD	GLU	D	455	25.186 1		65.404	1.00 36.35		С
MOTA	15151	OE1	GLU	D	455	25.126 1	L11.618	64.139	1.00 38.01		0
MOTA	15152	OE2	GLU			26.246 1	L11.364	66.042	1.00 37.44		0
ATOM	15153	C	GLU			25.188 1		68.931	1.00 30.06		С
ATOM	15154	ŏ			455	25.619 1		68.178	1.00 30.05		0
ATOM	15155	N			456	25.791		70.058	1.00 29.91		N
	15157	CA	ILE			27.125		70.396	1.00 30.08		C
MOTA					456	27.916		71.167	1.00 30.17		· C
MOTA	15159	CB				27.740		70.543	1.00 30.89		Č
MOTA	15161	CG1			456	28.139		71.473	1.00 30.03		č
ATOM	15164	CD1			456						č
MOTA	15168	CG2			456	29.396		71.206	1.00 30.54		c
MOTA	15172	C			456	27.066		71.270	1.00 29.78		ŏ
MOTA	15173	0			456		108.157	71.226	1.00 29.77		
MOTA	15174	N			457	26.013		72.075	1.00 29.47		N
MOTA	15176	CA			457	26.004		73.185	1.00 29.20		C
MOTA	15178	CB			457	25.949		74.496	1.00 29.03		C
MOTA	15181	CG	TRP	D	457	27.212		74.772	1.00 27.61		C
MOTA	15182	CD1	TRP	D	457	28.480	109.207	74.367	1.00 26.17		С
MOTA	15184	NE1	TRP	D	457	29.370		74.819	1.00 26.12		N
ATOM	15186	CE2	TRP	D	457	28.690	111.112	75.522	1.00 25.26		С
ATOM	15187	CD2			457	27.331	110.761	75.508	1.00 25.56		С
MOTA	15188	CE3	TRP	D	457	26.423	111.596	76.165	1.00 24.92		CCC
ATOM	15190	CZ3				26.886		76.788	1.00 24.01		С
MOTA	15192	CH2			457	28.239		76.777	1.00 23.98		C
ATOM	15194	CZ2					112.260	76.149	1.00 24.30		C
ATOM	15196	c			457		106.918	73.145	1.00 29.64		С
ATOM	15197	ŏ			457		105.871	73.761	1.00 30.11		0
ATOM	15198	N	ASP				107.149	72.446	1.00 29.64		N
ATOM	15200	CA			458	22.871		72.163	1.00 30.00		C
ATOM	15200	CB	ASP		458		106.620	71.901	1.00 30.42		Č
ATOM		CG			458	20.787		73.163	1.00 31.26		Č
	15205					20.662		74.181	1.00 33.17		ŏ
ATOM	15206				458			73.214	1.00 30.31		ŏ
ATOM	15207				458	20.323		70.956	1.00 30.31		Č
MOTA	15208	C			458	23.405					Ö
MOTA	15209	0			458	22.662		70.272	1.00 29.41		. 0
ATOM	15210				500	29.783		81.248	1.00 43.28		
MOTA	15211				500	30.864		82.132	1.00 42.59		S
ATOM	15212				500	32.224		81.817	1.00 43.05		0
MOTA	15213				500	30.406		83.634	1.00 44.92		C
MOTA	15214				500	31.432		84.565	1.00 46.73		C
MOTA	15216				500	31.074		85.767	1.00 47.36		С
MOTA	15218	C04	444	Г	500		118.493	86.031	1.00 47.70		C
MOTA	15220	C05	444	E	500	28.700	118.103	85.104	1.00 47.53		C
MOTA	15222				500	29.037	117.452	83.895	1.00 45.98		С
ATOM	15224				500		114.676	82.479	1.00 34.04		N
MOTA	15225				500		114.289	83.828			С
MOTA	15228				500		113.140	83.555			С
ATOM	15229				500		112.067	83.351			F
										 	

MOTA	15230	F21	444	D	500	33,170	112.908	84.610	1.00 29.72			٠
ATOM	15231				500	33 122	113.297		1.00 29.72			F
ATOM	15232				500	20.122	113.291		1.00 28.12			F
ATOM							114.039	82.203	1.00 28.86			С
			444				113.536	80.912	1.00 27.15			C
ATOM	15235				500	28.198	112.945	80.565	1.00 25.98			Ċ
ATOM	15237	C28	444	D	500	28.554	113.983	83.165	1.00 26.98			
ATOM	15239		444				113.383	82.828	1.00 20.90			С
ATOM	15241				500				1.00 25.42			С
ATOM	15242	020	444	2	500	27.118	112.846	81.517	1.00 24.42		•	С
					500	25.792	112.183	81.029	1.00 22.86			C
MOTA	15243		444			25.234	111.097	81.997	1.00 20.31			Č
ATOM	15244	F36	444	D	500		110.407	81.435	1.00 15.54			
ATOM	15245				500		110.287	82.370	1 00 10.04			F
MOTA	15246		444				111.597		1.00 20.02		٠.	F
ATOM	15247				500			83.166	1.00 20.09			F
							111.622	79.680	1.00 24.12			0
MOTA	15249		444				113.270	80.950	1.00 22.86			C
MOTA	15250		444			24.402	113.916	82.114	1.00 21.70			
ATOM	15251	F40	444	D	500	25,139	114.271	80.152	1.00 23.02			E
MOTA	15252		444			23 522	112.780		1.00 23.02			F
ATOM	15253		нон					80.476	1.00 21.85	•		F
					1	46.532		60.943	1.00 34.51			0
ATOM	15256		НОН		2	43.940		60.458	1.00 21.54			0
ATOM	15259		HOH		3	-8.517	37.033	50.353	1.00 32.34			ō
MOTA	15262	OH2	HOH	Х	4	32.880		46.224	1.00 35.84		•	
MOTA	15265		нон		5	14.230						0
ATOM	15268		НОН		6			44.521	1.00 26.16			0
ATOM	15271					-4.506		56.969	1.00 22.66			0
			НОН		7	1.182		51.836	1.00 25.14			0
ATOM	15274		нон		8	42.367	92.308	87.001	1.00 31.51			Õ
MOTA	15277		HOH		9	10.330	38.054	50.008	1.00 29.19			~
ATOM	15280	OH2	HOH	Х	10	11.484	48.043	48.250	1.00 27.34			0
ATOM	15283		нон		11.		114.890					O
MOTA	15286	OH2			12	41 000	104.749	67.101	1.00 38.72			0
ATOM	15289		НОН					75.930	1.00 39.93			0
ATOM					13	43.103	95.687	80.489	1.00 29.34			0
	15292		нон		14		107.966	69.692	1.00 30.35			Ω
ATOM	15295		нон		15	7.458	49.068	50.128	1.00 28.92			ŏ
ATOM	15298	OH2	HOH	X	16	10.240	45.008	40.909	1.00 32.15			~
ATOM	15301		HOH		17	2.836	16.569					Ū
ATOM	15304		НОН		18	20.897		62.303	1.00 34.89			О
ATOM	15307		НОН				45.121	29.759	1.00 36.12			0
ATOM					20	-24.434	20.835	48.248	1.00 41.60			0
	15310		HOH		21	33.739	89.574	78.961	1.00 33.24			0
MOTA	15313		HOH		22	40.099	90.209	61.705	1.00 31.52			ŏ
ATOM	15316	OH2	HOH	Х	23	55.511	82.920	79.410	1.00 42.28	-		
ATOM	15319		HOH		24	23.880	31.530					0
MOTA	15322		НОН		25	8.960		42.241	1.00 31.86			0
ATOM	15325		HOH				44.376	48.177	1.00 35.40			0
ATOM					26	36.847	88.047	82.041	1.00 29.20			0
	15328		НОН		27	5.113	40.886	61.707	1.00 37.26			Ō
MOTA	15331	OH2	нон	X	28	16.518	33.981	29.281	1.00 33.23			ŏ
ATOM	15334	OH2	HOH	X	29	6.099	60.077	49.223	1.00 48.04			
ATOM	15337	OH2			30	61.699	85.208	92.702		•		0
ATOM	15340	OH2	HOH	Y	31	30.566	03.200		1.00 22.47			0
ATOM	15343	OH2					91.470	70.226	1.00 43.75			0
					32	40.885	82.761	59.479	1.00 35.50			0
MOTA	15346	OH2			33	19.677	39.489	29.060	1.00 26.50			Õ
MOTA	15349	OH2	HOH	X	34	12.819	44.208	34.109	1.00 39.68			ŏ
MOTA	15352	OH2	HOH	Х	35	32.930	39.602	48.595	1.00 42.39	•		
ATOM	15355	OH2	НОН	х	36	23.749	36.540					0
MOTA	15358	OH2			37	24.708	20.340	35.504	1.00 25.43			0
ATOM	15361	OH2					25.459	46.968	1.00 33.72			0
ATOM					38	49.099	77.477	91.071	1.00 40.02			0
	15364	OH2	HOH	X	39		105.012	66.983	1.00 42.25			ŏ
ATOM	15367	OH2	нон	X	40	7.607 ⁻	41.675	44.947	1.00 33.21			ō
ATOM	15370	OH2	HOH	X	41	5.145	27.301	63.404	1.00 34.78	•		
MOTA	15373	OH2	нон	X	42	16.656	43.571	31 600				0
ATOM	15376	OH2			43		104.982	31.693	1.00 39.41			0
ATOM	15379	OH2	HOn	v	44			74.371	1.00 41.79			0
	,	-112	-1011	42	44	57.847	85.188	90.141	1.00 33.55			0

ATOM	15382	OH2	нон х	K	45	29.538	70.693	76.936	1.00 30.56	0
MOTA	15385	OH2			46	12.599	46.276	27.929	1.00 49.86	O
ATOM	15388	OH2			47	28.126	22.913	46.477	1.00 47.72	0
ATOM	15391	OH2			48 49	11.129	33.667 23.589	46.692 62.844	1.00 49.46 1.00 54.23	0
MOTA	15394 15397	OH2			50	-11.613 -1.060	49.229	56.547	1.00 34.23	0
ATOM ATOM	15397	OH2			51	37.636	92.539	81.720	1.00 40.10	0
ATOM	15403	OH2			52	27.519	41.154	40.197	1.00 35.37	Ö
ATOM	15406	OH2			53	40.050	99.057	64.126	1.00 52.91	Ö
ATOM	15409	OH2			54	-19.683	26.686	47.468	1.00 44.72	Ō
MOTA	15412	OH2			55	50.246	84.320	94.984	1.00 34.24	0
ATOM	15415	OH2			56	16.902	38.476	34.555	1.00 32.06	0
ATOM	15418	OH2	НОН	X	57	38.060	67.355		1.00 41.43	. 0
MOTA	15421	OH2	HOH	X	58	60.904	94.982	89.432	1.00 34.65	0
MOTA	15424		нон		59	-17.325	22.794	57.113	1.00 46.37	0
MOTA	15427		нон		60	3.362	13.072	65.124	1.00 38.40	0
MOTA	15430		нон		61		105.795	74.730	1.00 37.68	0
MOTA	15433		нон		62	36.894	71.754	79.474	1.00 32.98	0
MOTA	15436		НОН		63	13.379	32.879	42.381	1.00 41.41	0
ATOM	.15439		НОН		64		124.169 94.373	78.443 63.138	1.00 35.68 1.00 38.40	O. O
ATOM	15442		HOH		65 66	45.804 51.421	95.969	67.069	1.00 38.40	
MOTA	15445 15448		нон нон		67	11.339	36.149	48.061	1.00 43.00	Ö
ATOM ATOM	15451		нон		68	34.894	90.045	94.991	1.00 51.93	
ATOM	15454		НОН		69	12.975	47.342	35.353	1.00 39.82	
ATOM	15457		НОН		70	63.059	87.658	92.928	1.00 42.47	
ATOM	15460		НОН		71	33.804	93.321	79.878	1.00 47.03	
ATOM	15463		нон		72	2.417	31.051	61.473	1.00 41.02	
ATOM	15466		нон		73	17.739	57.775	68.846	1.00 51.94	
MOTA	15469	OH2	нон	X	74	25.040	39.514	30.274	1.00 35.46	0
MOTA	15472	OH2	HOH	X	75	9.628	47.145	38.834	1.00 35.97	
MOTA	15475	OH2	нон	X	76	-1.455	38.558	54.975	1.00 43.93	
MOTA	15478		нон		77	23.890	32.054	65.767	1.00 40.56	
MOTA	15481		нон		78	35.220	87.143	59.408	1.00 47.79	
MOTA	15484		НОН		79	-3.737	37.957	51.063	1.00 37.26	
ATOM	15487		HOH		80	26.390	20.517	51.266	1.00 41.78	
ATOM	15490		HOH		81	44.780	96.146 96.896	82.783 91.425	1.00 40.78 1.00 47.39	
ATOM ATOM	15493 15496		нон нон		82 83	61.022 10.746	33.408	64.943	1.00 47.39	
ATOM	15499		нон		84	42.068	92.559	99.125	1.00 40.71	
MOTA	15502		нон		85	37.825	95.713	83.950	1.00 42.10	
ATOM	15505		НОН		86	18.527	38.924	32.746	1.00 31.46	
MOTA	15508		нон		87	34.168	36.470	54.739	1.00 39.12	
ATOM	15511		нон		88	19.596		72.373	1.00 46.37	
MOTA	15514	OH2	нон	X	89	11.760		73.671	1.00 46.11	
MOTA	15517		нон		90		113.347	68.754	1.00 41.84	
MOTA	15520		нон		91	-6.478		47.625	1.00 35.45	
MOTA	15523		нон		92	21.629		53.544	1.00 43.70	
ATOM	15526		НОН		93	46.330		84.817	1.00 51.22	
ATOM	15529		HOH		94	-0.340		62.724	1.00 62.65	
ATOM	15532		HOH		95 96	62.907 8.178		75.543 44.411	1.00 59.06	
MOTA MOTA	15535 15538		нон нон		97	27.884		62.492	1.00 31.10	
ATOM	15541		НОН		98	-8.889		48.102	1.00 48.95	
ATOM	15544		НОН		99	9.002		72.903	1.00 50.58	
MOTA	15547		НОН			31.344		45.713	1.00 43.51	
MOTA	15550		нон			18.153		64.337	1.00 54.94	
ATOM	15553		нон			1.030		57.245		
ATOM	15556		НОН			29.712		76.942		
MOTA	15559		нон			22.984	38.071	63.390		3 0
MOTA	15562	OH2	нон	Х	105	51.193	79.769	95.149	1.00 45.76	5 0
							· · · · · · · · · · · · · · · · · · ·			

ATOM			33.792 91.621 90	.143 1.00 51.13	_
ATOM			36.239 92.488 88	967 1 00 20 50	0
ATOM			-3.601 13 130 44	654 1 00 54 45	0
ATOM			49.245 108.437 58	.969 1.00 35.43	0
ATOM		OH2 HOH X 110		206 1 00 00 50	ŏ
ATOM ATOM		OH2 HOH X 111	-18.855 46.772 46	100 1 00 50 55	ŏ
ATOM		OH2 HOH X 112		.690 1.00 36.87	ŏ
ATOM		OH2 HOH X 113	60.490 82.135 95	.444 1.00 35.66	ŏ
ATOM		0112 HOH A 114	23.497 88 260 70	·140 1.00 50.29	ō
ATOM		OH2 HOH X 115 OH2 HOH X 116	32.011 109.362 74	.027 1.00 41.73	Ō
ATOM		OH2 HOR X 116	0.426 9.190 66 36.454 102.339 72	.809 1.00 41.95	0
ATOM		OH2 HOH X 117	30.434 102.339 /2	0.0	0
ATOM		OH2 HOH X 119			0
ATOM	15607	OH2 HOH X 120	16.245 39.647 65		0
MOTA		OH2 HOH X 121	56.346 83.142 90		0
ATOM	15613	OH2 HOH X 122	12.750 37.842 70		0
ATOM		OH2 HOH X 122 OH2 HOH X 123	8.747 37.163 32	204 1 00 15	0
ATOM		OH2 HOH X 124		105	0
ATOM		ОН2 НОН X 125	46.773 121.479 78		0
ATOM		OHZ HOH X 126	46.357 103 993 67	000 1 00 10 00	0
ATOM		OH2 HOH X 127	25.492 45.676 35	104	0 0
ATOM		OH2 HOH X 128	-0.796 46 044 50	005	0
ATOM		ОН2 НОН Х 129	3,729 30 062 68		0
MOTA		OH2 HOH X 130 OH2 HOH X 131	48.573 84.962 56	010 # 00	ö
ATOM ATOM		OH2 HOH X 131		.877 1.00 52.66	ŏ
ATOM		OH2 HOH X 132	-23.390 27.562 46	.202 1.00 46.29	ŏ
ATOM	15649	OH2 HOH X 133 OH2 HOH X 134	36.470 27.644 53	.311 1.00 50.64	Ö
ATOM		OH2 HOH X 134	0.4 0.4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	.172 1.00 58.47	Ö
ATOM	15655	OH2 HOH X 135 OH2 HOH X 136	-24.310 23.846 44	.067 1.00 45.15	O
ATOM	15658	OH2 HOH X 137		777 1.00 52.75	O
ATOM	15661	OH2 HOH X 138)
ATOM	15664	OH2 HOH X 139)
ATOM	15667	OH2 HOH X 140		871 1.00 50.31 614 1.00 50.61	
ATOM	15670			400 4 40	
MOTA	15673	OH2 HOH X 142			
ATOM	15676	ОН2 НОН Х 143		016 4 44	
ATOM	15679	OH2 HOH X 144		157 1.00 44.68	
ATOM	15682	ОН2 НОН Х 145	-8.666 40.701 52.	911 1.00 55.03	
ATOM	15685	ОН2 НОН Х 146	46.777 99.081 89.	567 1.00 38.00	
ATOM ATOM	15688 15691	OHZ HOH X 147	44 860 79 405 70	864 1.00 44.03	
ATOM	15691	OH2 HOH X 148 OH2 HOH X 149	-1.046 34.042 71.	130 1.00 50.39	
ATOM	15697	OH2 HOH X 149 OH2 HOH X 150		049 1.00 52.24 c	
ATOM	15700	OH2 HOH X 150	59.387 81.812 97.	546 1.00 37.06 C)
ATOM	15703	OH2 HOH X 151		199 1.00 34.78 _C	
ATOM	15706	OH2 HOH X 153		720 1.00 39.52)
MOTA	15709	OH2 HOH X 154		723 1.00 27.22	
MOTA	15712	OH2 HOH X 155		811 1.00 33.15	
MOTA	15715	ОН2 НОН X 156		150 1.00 54.72 0 825 1.00 44.03	
MOTA	15718	ОН2 НОН Х 157		070	
	15721	ОН2 НОН Х 158		E40 1 00 00 40	
ATOM	15724	ОН2 НОН Х 159	21.167 41.889 71.	647 1 00 46 47	
ATOM	15727	ОН2 НОН Х 160	-25.714 18.816 48.		
MOTA	15730	OH2 HOH X 161	33.611 28.996 44.		
ATOM	15733	OH2 HOH X 162	59.252 85.715 92.		
ATOM ATOM	15736	OH2 HOH X 163	56.509 79.788 79.		
ATOM	15739 15742	OH2 HOH X 164	61.945 84.384 95.	225 1.00 37.20 O	
MOTA	15742	OH2 HOH X 165	21.292 39.470 65.	165 1.00 43.24 O	
5.1 OF1	エン・オン	ОН2 НОН Х 166	15.971 40.815 31.	178 1.00 40.20 O	
		•		•	

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	15748 15751 15754 15757 15760 15763 15766 15769 15772	OH2 OH2 OH2 OH2 OH2 OH2 OH2	HOH HOH HOH HOH HOH	x x x x x x x x	168 169 170 171 172 173 174 175 176	38.973 6.544 -24.303 34.981 51.901 18.091 34.412 41.936 22.163 28.413	28.814 11.603 26.808 69.780 104.303 45.617 92.254 82.641 36.653 34.741	53.562 61.259 42.736 79.701 67.464 30.308 86.597 55.668 32.630 46.994	1.00 1.00 1.00 1.00 1.00 1.00 1.00	54.48 53.05 61.79 40.54 47.59 51.39 48.91 38.37 42.62 50.06		
ATOM	15763										_	
	_										0)
						34.412	92.254	86.597	1.00	48.91	0	١
ATOM	15769	OH2	нон	X	174	41.936	82.641	55.668	1 00	38 37	_	
ATOM	15772	OH2	HOH	x	175	22 163						
አጥOM	15775										O)
						28.413	34.741	46.994	1.00	50.06	0	,
atom	15778	OH2	HOH	Х	177	8.522	49.608	45.435	1.00	46.69	ŏ	
ATOM	15781	OH2	HOH	Х	178	20.863	62.029	52.043			_	
MOTA	15784	OH2			-		·		1.00	50.34	0	•
			HOH			4.382	46.594	47.704	1.00	41.40	٥	1
ATOM	15787	OH2	HOH	X	180	20.936	27,200	39.092	1.00	46.32	_	
ATOM	15790	OH2	нон	Y	181	-5.954	7.428				0	
								61.983	1.00	46.68	0	,
MOTA	15793	OHZ	нон	X	185	51.690	126.628	74.732	1.00	52.23	٥	,

CO-ORDINATE TABLE 2

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REMARK ******* CONFIDENTIAL ********************
 REMARK THESE ATOMIC COORDINATES AND/OR STRUCTURE FACTORS ARE PROPRIETARY
        INFORMATION BELONGING TO KARO BIO AB , STOCKHOLM, SWEDEN.
 REMARK
REMARK
        THEY ARE TO BE HELD IN CONFIDENCE AND ARE NOT TO BE USED FOR
REMARK PURPOSES OF EXTERNAL PUBLICATION OR REDISTRIBUTED TO ANY
        SOURCE OUTSIDE OF KARO BIO WITHOUT AUTHORIZATION.
 REMARK
 REMARK **********************************
REMARK
 TITLE
           HUMAN LXR BETA HORMONE RECEPTOR /
 TITLE
         2 KB043546/WAY207380/GW3965 COMPLEX
REMARK
REMARK
REMARK
        ATOMIC COORDINATES OF A CRYSTAL STRUCTURE
REMARK
REMARK
        DEPOSITOR: MATHIAS FARNEGARDH (MATHIAS.FARNEGARDH@KAROBIO.SE)
REMARK
        DEPOSITION DATE 5-SEP-2002
REMARK
REMARK
        THIS FILE REPLACE lxrb_KB43546_b1.pdb (11-MAR 2002)
REMARK
        THE ATOMIC COORDINATES AND/OR STRUCTURE FACTORS IN THIS FILE ARE THE
REMARK
        EXPERIMENTAL RESULTS OF:
REMARK
REMARK
REMARK MATHIAS FARNEGARDH, KARO BIO AB
REMARK NOVUM, 141 57 HUDDINGE, SWEDEN
REMARK
REMARK
        THIS ENTRY CONTAINS THE COMPLETE CONTENT OF THE ASYMETRIC UNIT
        THAT COULD BE BUILT INTO INTERPRETABLE ELECTRON DENSITIES
REMARK
        IT CONTAINS 4 INDEPENDENTLY REFINED PROTEIN MONOMERS
REMARK
        CHAIN A 220-242, 247-253, 259-460 (HIS460 MODELLED AS ALA)
REMARK
REMARK A500 IS THE LIGAND
REMARK CHAIN B 220-460 (HIS460 MODELLED AS ALA) B500 IS THE LIGAND
REMARK CHAIN C 220-252, 264-438 THERE ARE WEAK DENSITIES SUGGESTING A LOW
REMARK OCCUPANCY OF THE LIGAND. EXPERIMENTS TO ESTIMATE THE OCCUPANCY
       SUGGESTS AN OCCUPANCY AROUND 0.5-0.6. THERE ARE ALSO SOME WEAK BUT
REMARK
        UNINTERPRETABLE DENSITY IN THE REGION WHERE H12 SITS IN THE A B AND
REMARK
REMARK
        D CHAINS.
        CHAIN D 220-244, 248-254, 263-444, 448-460 (HIS460 MODELLED AS ALA)
REMARK
REMARK D500 IS THE LIGAND
       THE PROTEIN CRYSTALLIZED CONTAIN RESIDUES 213-461, THE GAPS IN THE
REMARK
REMARK STRUCTURE ARE DUE TO UNINTERPRETABLE ELECTRONDENSITIES IN THESE
REMARK PARTICUALR REGIONS
HEADER
          LXRB+KB043546/WAY207380/GW3965
                                                  05-SEP-02
                                                              XXXX
COMPND
         MOL ID: 1;
COMPND
         2 MOLECULE: LIVER X RECEPTOR BETA;
         3 CHAIN: A, B, C, D;
4 FRAGMENT: LIGAND BINDING DOMAIN;
COMPND
COMPND
COMPND
         5 SYNONYM: LXRB;
REMARK
         3
REMARK
         3 REFINEMENT.
REMARK
         3
             PROGRAM
                         : REFMAC 5.1.19
REMARK
         3
             AUTHORS
                         : MURSHUDOV, VAGIN, DODSON
REMARK
         3
REMARK
         3
              REFINEMENT TARGET : MAXIMUM LIKELIHOOD
REMARK
REMARK
            DATA USED IN REFINEMENT.
REMARK
             RESOLUTION RANGE HIGH (ANGSTROMS) :
             RESOLUTION RANGE LOW (ANGSTROMS): 87.71
REMARK
REMARK
             DATA CUTOFF
                                    (SIGMA(F)) : NONE
```

```
COMPLETENESS FOR RANGE (%): 98.41
REMARK
                 NUMBER OF REFLECTIONS
                                                                   38254
REMARK
           3
REMARK
           3
            3 FIT TO DATA USED IN REFINEMENT.
REMARK
                 CROSS-VALIDATION METHOD
                                                             : THROUGHOUT
REMARK
                 FREE R VALUE TEST SET SELECTION : RANDOM
REMARK
            3
                 R VALUE (WORKING + TEST SET) : 0.20934
REMARK
            3
                                         (WORKING SET) : 0.20655
                 R VALUE
REMARK
                                                             : 0.26237
                 FREE R VALUE
REMARK
                 FREE R VALUE TEST SET SIZE (%): 5.0
REMARK
                 FREE R VALUE TEST SET COUNT
                                                                  2021
REMARK
REMARK
            3 FIT IN THE HIGHEST RESOLUTION BIN.
REMARK
                 TOTAL NUMBER OF BINS USED
                                                                          20
REMARK
                                                                        2.400
                 BIN RESOLUTION RANGE HIGH
REMARK
            3
                 BIN RESOLUTION RANGE LOW
                                                                       2.462
REMARK
            3
                                                                        2689
                 REFLECTION IN BIN (WORKING SET) :
REMARK
                                              (WORKING SET): 0.218
                 BIN R VALUE
REMARK
                 BIN FREE R VALUE SET COUNT :
                                                                          140
REMARK
                                                                         0.296
                 BIN FREE R VALUE
REMARK
REMARK
                NUMBER OF NON-HYDROGEN ATOMS USED IN REFINEMENT.
            3
REMARK
                                                   : 7673
            3
                 ALL ATOMS
REMARK
REMARK
             3
             3 B VALUES.
REMARK
                                            (A**2) : NULL
                FROM WILSON PLOT (A**2): NULL MEAN B VALUE (OVERALL, A**2): 23.076
REMARK
             3
REMARK
            3
                 OVERALL ANISOTROPIC B VALUE.
REMARK
                  B11 (A**2) : -0.75
           3
 REMARK
                   B22 (A**2):
           3
                                         1.03
 REMARK
                  B33 (A**2): -0.28
B12 (A**2): 0.00
B13 (A**2): 0.00
B23 (A**2): 0.00
           3
 REMARK
 REMARK
             3
             3
 REMARK
 REMARK
             3
 REMARK
             3
             3 ESTIMATED OVERALL COORDINATE ERROR.
 REMARK
                                                                                   (A):
                                                                                             0.511
                 ESU BASED ON R VALUE
 REMARK
                                                                                             0.288
                  ESU BASED ON FREE R VALUE
                                                                                   (A):
 REMARK
                  ESU BASED ON MAXIMUM LIKELIHOOD
                                                                                    (A):
                                                                                            0.208
 REMARK
                  ESU FOR B VALUES BASED ON MAXIMUM LIKELIHOOD (A**2):
                                                                                          8.796
 REMARK
             3
 REMARK
             3 CORRELATION COEFFICIENTS.
 REMARK
                  CORRELATION COEFFICIENT FO-FC : 0.939
 REMARK
             3
                  CORRELATION COEFFICIENT FO-FC FREE: 0.901
 REMARK
             3
 REMARK
             3
                                                                     COUNT
                                                                                 RMS
                RMS DEVIATIONS FROM IDEAL VALUES
 REMARK
                 BOND LENGTHS REFINED ATOMS
BOND LENGTHS OTHERS

(A): 7652; 0.016; 0.022
(A): 7154; 0.003; 0.020
 REMARK
                   BOND LENGTHS OTHERS
                  BOND ANGLES REFINED ATOMS (DEGREES): 10342; 1.363; 1.979
BOND ANGLES OTHERS (DEGREES): 16577; 0.924; 3.000
TORSION ANGLES, PERIOD 1 (DEGREES): 898; 5.477; 5.000
CHIRAL-CENTER RESTRAINTS (A**3): 1164; 0.083; 0.200
GENERAL DIAMES DEFINED ATOMS
 REMARK
             3
 REMARK
             3
 REMARK
  REMARK
 REMARK
              3
                                                                (A): 8318; 0.005; 0.020
                  GENERAL PLANES REFINED ATOMS
GENERAL PLANES OTHERS
  REMARK
                                                                 (A): 1612; 0.004; 0.020
  REMARK

      GENERAL PLANES OTHERS
      (A): 1612; 0.004; 0.020

      NON-BONDED CONTACTS REFINED ATOMS
      (A): 1763; 0.203; 0.200

      NON-BONDED CONTACTS OTHERS
      (A): 8183; 0.216; 0.200

      NON-BONDED TORSION OTHERS
      (A): 4673; 0.086; 0.200

      H-BOND (X...Y) REFINED ATOMS
      (A): 186; 0.209; 0.200

      SYMMETRY VDW REFINED ATOMS
      (A): 22; 0.174; 0.200

      SYMMETRY VDW OTHERS
      (A): 98; 0.237; 0.200

      SYMMETRY H-BOND REFINED ATOMS
      (A): 8; 0.142; 0.200

  REMARK
  REMARK
              3
              3
  REMARK
              3
  REMARK
              3
  REMARK
  REMARK
              3 SYMMETRY H-BOND REFINED ATOMS
  REMARK
```

```
REMARK
             ISOTROPIC THERMAL FACTOR RESTRAINTS.
REMARK
                                                        COUNT
                                                                 RMS
                                                                        WEIGHT
              MAIN-CHAIN BOND REFINED ATOMS (A**2):
REMARK
          3
                                                         4554 ; 0.534 ; 1.500
              MAIN-CHAIN ANGLE REFINED ATOMS (A**2):
REMARK
                                                        7368 ; 1.039 ; 2.000
REMARK
              SIDE-CHAIN BOND REFINED ATOMS
                                               (A**2):
                                                         3098 ; 1.749 ; 3.000
              SIDE-CHAIN ANGLE REFINED ATOMS (A**2):
REMARK
                                                         2974 ; 2.997 ; 4.500
REMARK
          3
REMARK
          3
             NCS RESTRAINTS STATISTICS
REMARK
          3
             NUMBER OF NCS GROUPS : NULL
REMARK
          3
REMARK
          3
REMARK
          3
             TLS DETAILS
REMARK
          3
              NUMBER OF TLS GROUPS : NULL
REMARK
          3
REMARK
          3
REMARK
          3
             BULK SOLVENT MODELLING.
REMARK
              METHOD USED : BABINET MODEL WITH MASK
          3
REMARK
          3
              PARAMETERS FOR MASK CALCULATION
REMARK
          3
              VDW PROBE RADIUS
                                  :
                                      1.40
REMARK
          3
                                      0.80
              ION PROBE RADIUS
REMARK
          3
              SHRINKAGE RADIUS
                                      0.80
REMARK
          3
             OTHER REFINEMENT REMARKS:
REMARK
          3
             HYDROGENS HAVE BEEN ADDED IN THE RIDING POSITIONS
REMARK
REMARK
LINK
                  SER A 242
                                                  PRO A 247
                                                                             .gap
LINK
                  PRO A 253
                                                  ALA A 259
                                                                             gap
LINK
                  TRP C 252
                                                  ARG C 264
                                                                             gap
LINK
                  SER D 244
                                                  LYS D 248
                                                                             gap
LINK
                  LEU D 254
                                                  ALA D 263
                                                                             gap
LINK
                  LEU D 444.
                                                  LYS D 448
                                                                             gap
CRYST1
         58.717
                   98.929 175.815
                                     90.00
                                             90.00
                                                    90.00 P 21 21 21
SCALE1
             0.017031
                      0.000000 0.000000
                                                   0.00000
SCALE2
             0.000000
                      0.010108 0.000000
                                                   0.00000
SCALE3
             0.000000
                      0.000000
                                 0.005688
                                                   0.00000
MOTA
             N
                  LEU A 220
                                  25.060
                                          40.930
                                                   59.913
                                                           1.00 15.13
ATOM
          3
                  LEU A 220
             CA
                                  26.289
                                          40.159
                                                   60.353
                                                           1.00 15.45
ATOM
          5
             CB
                  LEU A 220
                                  27.291
                                          39.950
                                                   59.207
                                                           1.00 15.67
                                                                                  C
ATOM
          8
                  LEU A 220
             CG
                                  27.116
                                          38.849
                                                   58.140
                                                           1.00 17.66
                                                                                  С
ATOM
         10
             CD1 LEU A 220
                                  28.185
                                          38.981
                                                   57.007
                                                           1.00 17.73
                                                                                  C
ATOM
         14
             CD2 LEU A 220
                                  27.141
                                          37.466
                                                   58.708
                                                           1.00 17.30
                                                                                  С
ATOM
         18
                  LEU A 220
             С
                                  26.986
                                          40.905
                                                   61.486
                                                           1.00 14.86
                                                                                  С
MOTA
         19
             0
                  LEU A 220
                                          42.061
                                  27.349
                                                   61.313
                                                           1.00 13.74
                                                                                  0
ATOM
                  THR A 221
         22
             N
                                  27.168
                                          40.237
                                                           1.00 14.79
                                                   62.630
                                                                                  N
MOTA
         24
             CA
                  THR A 221
                                  27.969
                                          40.775
                                                   63:735
                                                           1.00 15.28
                                                                                  С
MOTA
         26
             CB
                  THR A 221
                                  27.770
                                          39.961
                                                   65.068
                                                           1.00 14.97
                                                                                  C
ATOM
         28
             OG1 THR A 221
                                  28.449
                                          38.717
                                                   64.998
                                                           1.00 15.18
                                                                                  0
             CG2 THR A 221
MOTA
         30
                                  26.346
                                          39.558
                                                           1.00 16.01
                                                   65.290
MOTA
         34
             С
                  THR A 221
                                  29.479
                                          40.828
                                                   63.378
                                                           1.00 15.09
                                                                                  C
ATOM
         35
             0
                  THR A 221
                                  29.945
                                          40.137
                                                   62.487
                                                           1.00 14.81
                                                                                  0
ATOM
                  ALA A 222
         36
             N
                                  30.220
                                          41.648
                                                   64.105
                                                           1.00 15.21
                                                                                  N
MOTA
         38
             CA
                 ALA A 222
                                  31.673
                                          41.759
                                                   63.960
                                                           1.00 15.24
                                                                                  С
ATOM
         40
             CB
                  ALA A 222
                                  32.183
                                          42.803
                                                   64.908
                                                           1.00 15.12
                                                                                  C
ATOM
         44
             С
                  ALA A 222
                                  32.421
                                                           1.00 15.76
                                          40.431
                                                   64.177
                                                                                  C
MOTA
         45
             0
                  ALA A 222
                                  33.417
                                          40.152
                                                   63.507
                                                           1.00 16.04
                                                                                . O
MOTA
         46
             N
                  ALA A 223
                                  31.952
                                          39.609
                                                           1.00 15.81
                                                   65.108
                                                                                  N
ATOM
         48
             CA
                 ALA A 223
                                  32.576
                                          38.301
                                                   65.341
                                                           1.00 15.78
                                                                                  C
```

ATOM	50	СВ	ALA A	Δ :	223	31.954	37.600	66.563	1.00	15 45		С
			ALA Z			32.422						
ATOM	54						37.402	64.114	1.00			C
MOTA	55		ALA A			33.327	36.657	63.773	1.00			0
ATOM	56	N	GLN Z	A :	224	31.243	37.424	63.507	1.00	15.96		N
MOTA	58	CA	GLN A	A. :	224	30.985	36.638	62.309	1.00	16.40		С
ATOM	60	CB	GLN 2			29.479	36.583	61.976		16.76		Č
ATOM	63	CG	GLN Z			28.626	35.831	62.969		16.46		č
ATOM	66	CD	GLN A			27.129	35.920	62.618		17.67		С
ATOM	67		GLN			26.636	36.996	62.252		16.55		0
ATOM	68	NE2	GLN .	A.	224	26.411	34.785	62.731	1.00	14.22		N
ATOM	71	С	GLN .	A.	224	31.741	37.181	61.106	1.00	15.81		C
ATOM	72	0	GLN .			32.261	36.418	60.344		15.71		ō
ATOM	73	Ŋ	GLU .			31.816	38.490	60.933		16.23		N
ATOM	75	CA	GLU .			32.632	39.039	59.846		17.17		С
MOTA	77	CB	GLU .			32.440	40.554	59.707		17.63		C
MOTA	80	CG	GLU .	A	225	31.152	40.907	58.966	1.00	21.74		С
ATOM	83	CD	GLU .	Α	225	31.003	42.396	58.650	1.00	27.29		С
ATOM	84	OE1	GLU			32.021	42.978	58.212		32.71		0
ATOM	85		GLU			29.883	42.995	58.837		28.94		ŏ
ATOM	86	C	GLU			34.116	38.668			16.92		
												C
ATOM	87	0	GLU			34.793	38.247	59.108		15.82		0
ATOM ·	88	N	LEU			34.604	38.786	61.279	1.00	17.48		N
MOTA	90	CA	LEU	Α	226	35.961	38.343	61.622	1.00	17.76		С
MOTA	92	CB	LEU	Α	226	36.204	38.469	63.124	1.00	17.63		С
ATOM	95	CG	LEU			37.549	37.979	63.657		17.25		Č
MOTA	97		LEU			38.661	38.747	63.038		17.37		Č
								65.172		19.01		č
ATOM	101		LEU			37.599	38.118				•	C
MOTA	105	С	LEU			36.238	36.910	61.164		18.47		С
ATOM	106	0	LEU	A	226	37.164	36.666	60.408	1.00	17.08		0
MOTA	107	N	MET	A	227	35.391	35.991	61.610	1.00	19.43		N
ATOM	109	CA	MET			35.537	34.586	61.306	1.00	21.31		С
MOTA	111	CB	MET			34.540	33.752	62.145		22.11		Č
ATOM	114	CG	MET			33.506	32.925	61.415		28.34		č
												Č
ATOM	117	SD			227 ·	32.334	31.905	62.531		38.91		s
ATOM	118	CE	MET			32.594	32.703	64.096		37.78		С
ATOM	122	С	MET			35.471	34.293	59.792	1.00	20.86		С
MOTA	123	0	MET	A	227	36.271	33.518	59.281	1.00	20.78		0
MOTA	124	N	ILE	Α	228	34.561	34.928	59.069	1.00	20.14		N
ATOM	126	CA	ILE			34.417	34.632	57.652		19.44		С
ATOM	128	CB	ILE			33.183	35.310	57.083		19.42		Č
ATOM	130		ILE			31.921	34.621	57.618		19.46		č
												Č
ATOM	133		ILE			30.696	35.544	57.670		19.93		С
MOTA	137		ILE			33.225	35.310	55.549		19.80		С
MOTA	141	С	ILE			35.663	35.106	56.928	1.00	19.44		С
ATOM	142	0	ILE	A	228	36.234	34.375	56.131	1.00	18.34		0
ATOM	143	N	GLN	Α	229	36.078	36.332	57.238		19.45		N
MOTA	145	CA	GLN			37.226	36.954	56.618		19.60		Ċ
ATOM	147	CB	GLN			37.392	38.404	57.120		19.49		č
ATOM	150	CG	GLN			36.403	39.387	56.506		20.13		C
MOTA	153	CD	GLN			36.463	40.823	57.104		24.05		С
ATOM	154	OE1	GLN	Α	229	35.688	41.697	56.683	1.00	25.94		0
MOTA	155	NE2	GLN	Α	229	37.375	41.065	58.057	1.00	21.74		N
ATOM	158	С	GLN			38.489	36.159	56.869		20.06		С
ATOM	159	ŏ	GLN			39.393	36.157	56.025		21.36		ŏ
ATOM	160	N	GLN			38.562	35.521	58.037		20.08		N
MOTA	162	CA	GLN			39.694	34.722	58.456		20.38		C
MOTA	164	CB			230	39.474	34.252	59.910		21.01		С
MOTA	167	CG	GLN	Α	230	40.644	33.461	60.547	1.00	22.28		С
ATOM	170	CD	GLN	Α	230	41.861	34.338	60.826	1.00	23.50		С
ATOM	171		GLN			41.826		60.575		27.54		Ō
ATOM	172_		_GLN_			42,934	33.742	61.355		24.11		N
												

ATOM	175	С	GLN .	Α	230	39.8	325	33.504	57.541	1.00	20.37		С
ATOM	176	0	GLN			40.9		33.189	57.052	1.00			ō
ATOM	177	N	LEU			38.7		32.825	57.332	1.00			N
MOTA	179	CA	LEU			38.6		31.704	56.406	1.00			C
ATOM	181				231	37.2		31.055	56.426	1.00			č
ATOM	184	CG	LEU			36.6		30.604	57.755	1.00			č
ATOM	186		LEU			35.2		30.038	57.502	1.00	-		č
ATOM	190		LEU			37.5		29.608	58.408	1.00			·C
								32.098	54.965		18.07		
ATOM	194	C	LEU			38.9					19.06	•	C
ATOM	195	0	LEU			39.		31.404	54.303				0
ATOM	196	N	VAL			38.4		33.171	54.471		16.56		N
MOTA	198	CA	VAL			38.6		33.594	53.111		16.52		C
ATOM	200	CB	VAL			37.		34.826	52.744		16.05		С
MOTA	202		VAL			38.2		35.487	51.440		14.87		С
MOTA	206		VAL			36.3		34.416	52.610		15.09		С
ATOM	210	С			232 ·	40.		33.904	52.906		17.56		С
ATOM	211	0	VAL	Α	232	40.	760	33.501	51.895	1.00	17.08		0
MOTA	212	N	ALA			40.	753	34.635	53.853	1.00	18.36		N
ATOM	214	CA	ALA	Α	233	42.	157	35.053	53.738	1.00	19.26		C .
ATOM	216	CB	ALA	Α	233	42.	466	36.197	54.723	1.00	18.99		. C
ATOM	220	С	ALA	Α	233	43.	106	33.877	53.958.	1.00	20.32		С
ATOM	221	0	ALA	Α	233	44.	184	33.833	53.399	1.00	19.59		O٠
ATOM	222	N	ALA			42.		32.913	54.764	1.00	22.20		N
ATOM	224	CA	ALA			43.		31.728	55.028		23.33		C
MOTA	226	СВ	ALA			42.		30.940	56.122		23.33		Ċ
ATOM	230	C	ALA			43.		30.910	53.763		24.99		Č
ATOM	231	ŏ	ALA			44.		30.367	53.402		24.97		ŏ
ATOM	232	N	GLN			42.		30.841	53.087		26.96		N
ATOM	234	CA	GLN			42.		30.049	51.885		28.40		C
ATOM	236	CB	GLN			40.		30.006	51.494		28.71		č
ATOM	239	CG	GLN			40.		29.293	50.198		31.32		č
ATOM	242	CD	GLN			39.		28.371	50.317		34.64		Č
ATOM	243	OE1				38.		28.830	50.488		37.17		Ö
	243		GLN			39.		27.061	50.238		34.51		. N
ATOM						43.		30.603	50.775		28.96		C
ATOM	247	C	GLN						50.773		29.36		0
ATOM	248	0	GLN			43.		29.856			30.11		
ATOM	249	N	LEU			43.		31.915	50.619				N
ATOM	251	CA	LEU			43.		32.586	49.638		31.34		C
ATOM	253	CB	LEU			43.		34.041	49.522		31.53		C
ATOM	256	CG	LEU			44.		34.966	48.423		33.04		C
ATOM	258		LEU			44.		34.248	47.195		34.47		C
ATOM	262		LEU			42.		35.882	47.971		34.38		C
MOTA	266	. C	LEU			45.		32.526	49.948		32.20		C
ATOM	267	0	LEU			46.		32.434	49.037		31.58		0
ATOM	268	N	GLN				868	32.576	51.218		33.32		N
ATOM	270	CA	GLN				283	32.480	51.567		34.44		С
ATOM	272	CB	GLN			47.		33.065	52.967		34.50		С
ATOM	275	CG	GLN				027	33.026	53.460		35.10		С
ATOM	278	CD			237	50.		33.693	52.509		36.63		С
MOTA	279	OE1					791	34.772	51.957		36.48		0
MOTA	280	NE2					192	33.048	52.335		36.81		N
MOTA	283	С	GLN	Α	237	47.	786	31.035	51.423		35.77		С
MOTA	284	0	GLN	Α	237	48.	955	30.838	51.129		35.62		0
MOTA	285	N			238		912	30.034	51.597		37.59		N
ATOM	287	CA			238		301	28.615	51.438	1.00	39.46	•	С
ATOM	289	CB			238	46.	237	27.649	51.999	1.00	39.59		С
ATOM	292	SG			238	46.	181	27.601	53.804	1.00	40.56		S
MOTA	293	С			238		516	28.289	49.973		40.75		С
ATOM	294	Ō			238		401	27.518	49.614		41.33		Ō
ATOM	295	N			239		682	28.890	49.141		42.10		N
ATOM	297	CA			239		776	28.758	47.709		43.09		C
•		•			**			_					-

ATOM	299	CB	ASN	A 239	45.498	29.322	47 005	1 00			
MOTA	302	CG		A 239	45.427	29.097	47.095 45.608		43.37		С
ATOM	303	OD1	. ASN .	A 239	45.300	27.948	45.146		45.64		С
MOTA	304	ND2	ASN .	A 239	45.513	30.188	44.836		48.37		0
MOTA	307	С	ASN .	A 239	48.016	29.479	47.151		45.47		N
MOTA	308	0	ASN .	A 239	48.809	28.885	46.422		43.48		С
ATOM	309	N		A 240	48.177	30.748	47.520		43.67		0
MOTA	311	CA		A 240	49.254	31.612	47.027		43.94 44.29		N
ATOM	313	CB		A 240	49.130	33.007	47.666		44.29		C
ATOM	316	CG		A 240	50.205	34.017	47.283		44.30		C
ATOM	319	CD	LYS .	A 240	51.068	34.463	48.497		45.64		C
ATOM	322	CE	LYS :	A 240	52.528	34.788	48.123		45.84		C
ATOM	325	NZ	LYS	A 240	52.900	36.182	48.506		43.21		C
ATOM	329	С	LYS 2	A 240	50.638	31.015	47.284	1.00			И
ATOM	330	0		A 240	51.494	31.006	46.389		44.94		C
ATOM	331	N	ARG Z	A 241	50.853	30.484	48.484		45.29		0
ATOM	333	CA	ARG 2	A 241	52.161	29.936	48.844		45.73		N
ATOM	335	CB		A 241	52.324	29.860	50.375		45.60		C
ATOM	338	CG	ARG I	A 241	51.814	28.620	51.057		45.93		C
MOTA	341	CD		A 241	51.894	28.707	52.573		45.89		C
ATOM	344	NE		A 241	53.247	28.478	53.068		45.29		N
ATOM	346	CZ		A 241	53.574	27.711	54.112		45.70	•	C
ATOM	347		ARG A		52.652	27.064	54.823		45.14		N
ATOM	350		ARG A		54.853	27.593	54.452		46.29		N
ATOM	353	C		A 241	52.503	28.602	48.134	1.00	46.13		C
ATOM	354	0		A 241	53.655	28.377	47.773	1.00	46.44		ŏ
ATOM	355	N		A 242	51.511	27.748	47.899	1.00	46.59		N
ATOM	357	CA.			51.743	26.466	47.212		46.88		Ċ
ATOM ATOM	359	CB	SER A		50.646	25.472	47.596		46.75		č
ATOM	362	OG	SER A		50.717	25.193	48.986	1.00	47.56		ŏ
ATOM	364	С	SER A		51.857	26.576	45.674	1.00	46.93		Č
ATOM	365 366	0	SER A		51.601	27.632	45.077		46.82		ō
ATOM	367	N CA	PRO F		54.724	22.837	43.959		33.07		N
ATOM	369	CB	PRO F		56.172	22.670	43.748		33.14		С
ATOM	372	CG	PRO P		56.700	22.242	45.132		33.12		С
ATOM	375	CD	PRO A		55.471	22.096	46.032		33.34		С
ATOM	378	c	PRO A		54.382	22.917	45.388		33.19		С
ATOM	379	ŏ	PRO A		56.500 55.578	21.607	42.698		32.82		С
ATOM	380	N	LYS A		57.796	20.966	42.176		33.05		0
ATOM	382	CA	LYS A		58.371	21.464 20.452	42.405		32.25		N
ATOM	384	CB	LYS A		59.853	20.432	41.487	1.00	31.95		С
ATOM	387	CG	LYS A		60.544	20.153	41.830 42.964	1.00	32.14		С
ATOM	390	CD	LYS A		59.958	20.695	44.399		33.20		C
ATOM	393	CE	LYS A		61.060	20.551	45.479		34.19 35.05		C
ATOM	396	NZ	LYS A		61.959	21.762	45.631	1.00	35.51		С
ATOM	400	С	LYS A		57.594	19.135	41.431	1 00	31.29		N
MOTA	401	0	LYS A	248	57.233	18.584	42.470		31.80		C
ATOM	402	N	VAL A	249	57.362	18.624	40.222	1 00	30.21		0
ATOM	404	CA	VAL A	249	56.507	17.444	40.034		29.34		N
ATOM	406	CB	VAL A	. 249	55.043	17.844	39.690		29.36		C
ATOM	408	CG1	VAL A	249	54.175	17.827	40.936	1.00	28.98		C
ATOM	412		VAL A	249	54.983	19.217	39.012		29.91		C
ATOM	416	C	VAL A		57.013	16.505	38.944		28.28		C
ATOM	417	0	VAL A		57.743	16.920	38.067		28.23		0
ATOM	418	N	THR A		56.601	15.242	39.000	1.00	27.22		N
ATOM	420	CA	THR A		56.939	14.280	37.960	1.00	26.62		C
ATOM	422	CB	THR A	250	56.376	12.874	38.282	1.00	26.66		C
ATOM	424	OGI	THR A	250	56.952	12.373	39.496	1.00	26.45		ŏ
ATOM ATOM	426		THR A		56.790	11.864	37.223	1.00	25.61		Č
AI ON	430	С	THR A	250	56.327	14.775	36.656	1.00	26.23		č
									·		

ATOM	431	0	THR .	Α	250	55.129	15.061	36.626	1.00	25.74					0
ATOM	432	N ·	PRO .	A	251	57.140	14.913	35.602		25.92					N
ATOM	433	CA	PRO .			56.645	15.329	34.276		25.62					C
ATOM	435	CB	PRO .	Α	251	57.875	15.215	33.373		25.90				٠,	
ATOM	438	CG	PRO .			59.057	15.249	34.281		26.42			•		c
ATOM .	441	CD	PRO			58.606	14.750	35.618		26.02	•				C
ATOM	444	C	PRO			55.520	14.462	33.697		25.11					·C
ATOM	445	ō	PRO			55.559	13.224	33.769		25.06					
ATOM		. N	TRP			54.517	15.146	33.148		24.35					Ö
ATOM	448	CA	TRP			53.417	14.522	32.429		23.64					Ń
ATOM	450	CB	TRP			52.293	15.552	32.276		23.52					C
ATOM	453	CG	TRP			51.105	15.050	31.558		23.32					
ATOM	454		TRP			50.777	15.287	30.258							C
ATOM	456		TRP			49.596	14.657	29.951		22.55	•				C
ATOM	458	CE2	TRP			49.138	13.997	31.062		23.51					N
ATOM	459		TRP			50.069	14.223	32.093		22.59					C
ATOM	460		TRP			49.826				22.56					C.
ATOM	462	CZ3	TRP				13.655	33.348		22.89		٠			Ğ.
ATOM .	464	CH2	TRP			48.694	12.888	33.523		22.68	•				C
ATOM .	466	CZ2				47.794	12.675	32.470		22.15	•				C
			TRP			47.998	13.221	31.239		21.90			•		ຼັດ
ATOM	468	C	TRP			53.938	14.085	31.054		22.99					С
ATOM	469	0	TRP			54.552	14.888	30.366		22.61					0
ATOM	470	N	PRO			53.712	12.832	30.655		22.60					N
ATOM	471	CA	PRO		_	54.294	12.306	29.406		22.65					С
ATOM	473	CB	PRO			54.162	10.786	29.569		22.52					С
ATOM	476	CG	PRO			52.959	10.615	30.439		22.86					С
ATOM	479	CD	PRO			52.896	11.821	31.350		22.50					С
ATOM	482	C	PRO			53.567	12.775	28.143		22.39					C
ATOM	483	0	PRO			52.382	12.466	28.027		22.25					0
ATOM	484	N	ALA			49.422	3.445	24.159		31.79					N
ATOM	486	CA			259	49.766	3.864	25.510		31.96	•				С
ATOM	488	CB	ALA			48.535	4.456	26.212		31.97					C
ATOM	492	C	ALA			50.350	2.701	26.333		31.93					С
ATOM	493	0	ALA			49.638	1.749	26.675		32.13					0
ATOM	494	N	ALA			51.640	2.801	26.662		31.62					N
ATOM	496	CA	ALA			52.345	1.774	27.434		31.36	•				C
ATOM	498	CB	ALA			53.865	1.966	27.289		31.43					С
ATOM	502	C	ALA			51.947	1.741			31.15					C
ATOM	503	0	ALA			51.163	2.575	29.397		30.98					0
ATOM	504	N	ALA			52.501	0.761	29.644		30.82					N
ATOM	506	CA	ALA			52.275	0.590	31.086		30.41					С
ATOM	508	CB	ALA			52.496	-0.869	31.499		30.46					C
ATOM	512	C	ALA			53.166	1.517	31.925		30.11					С
ATOM	513	0	ALA			52.736	1.981	32.996		29.75					0
ATOM	514	N	ASP			54.399	1.760	31.451		29.31					N
ATOM	516	CA	ASP			55.285		32.038	1.00	28.85					С
ATOM	518	CB	ASP			56.591	2.920	31.242		28.92					С
ATOM .	521	CG	ASP			57.601	1.814	31.539		29.74					С
ATOM	522		ASP			57.785	1.456	32.726	1.00	30.32					0
ATOM	523		ASP			58.271	1.260	30.633		29.19					0
	524	C	ASP			54.600	4.156	32.073		28.24	•			•	C
ATOM	525	0	ASP			54.760	4.915	33.035		27.58					0
ATOM	526	N	ALA			53.852	4.460	31.010		27.62					N
MOTA	528	CA	ALA			53.199	5.757	30.842		27.34			•		С
ATOM	530	СВ	ALA			52.822	5.971	29.392		27.27					С
ATOM	534	C	ALA			51.969	5.921	31.736		27.01					С
ATOM	535	0	ALA			51.722	7.012	32.239		26.97					0
ATOM	536	N	ARG			51.199	4.846	31.910	1.00	26.59					N
MOTA	538	CA	ARG			50.094	4.819	32.875	1.00	26.11					С
ATOM	540	CB	ARG			49.450	3.409	32.930	1.00	26.56					С
MOTA	543	CG	ARG	Α	264	47.907	3.344	33.034	1.00	27.65				•	C

MOTA	546	CD	ARG	A	264	47.294	1.976	32.598	1.00 30.1	.4 C
ATOM	549	NE	ARG	Α	264	46.214	2.120	31.602	1.00 32.0	_
ATOM	551	CZ	ARG			44.891	2.012	31.846		
									1.00 33.5	_
MOTA	552		ARG			44.417	1.722	33.059	1.00 33.0	
MOTA	555	NH2	ARG			44.022	2.186	30.852	1.00 34.0	9 N
MOTA	558	С	ARG	A	264	50.657	5.241	34.246	1.00 25.2	
ATOM	559	0	ARG			50.286	6.280	34.778		
									1.00 24.9	
ATOM	560	N	GLN			51.589	4.443	34.771	1.00 24.2	!1 N
ATOM	562	CA	GLN	Α	265	52.258	4.693	36.051	1.00 23.4	0 C
ATOM	564	CB	GLN	Α	265	53.373	3.650	36.289	1.00 23.5	
ATOM	567	CG	GLN			52.852	2.204	36.554		_
									1.00 24.8	
ATOM	570	CD	GLN			53.863	1.057	36.251	1.00 27.5	
ATOM	571	OEl	GLN	Α	265	53.596	-0.090	36.619	1.00 29.2	26 0
ATOM	572	NE2	GLN	Α	265	54.994	1.360	35.578	1.00 27.5	
MOTA	575	С	GLN			52.833	6.108	36.124	1.00 22.0	
ATOM	576	Ŏ,	GĹN			52.866				-
		_*					6.716	37.193	1.00 22.2	
ATOM	577	N	GLN			53.265	6.633	34.986	1.00 20.3	
ATOM	579	CA	GLN	Α	266	53.733	8.008	34.896	1.00 19.3	32 C
ATOM	581	CB	GLN	Α	266	54.221	8.312	33.489	1.00 19.4	
ATOM	584	CG	GLN			55.094	9.506	33.429	1.00 20.3	_
ATOM	587	CD				56.485				
			GLN				9.151	33.837	1.00 21.4	_
ATOM	588	OE1				56.737	8.905	35.019	1.00 23.5	i8 o
MOTA	589	NE2	GLN	А	266	57.388	9.085	32.875	1.00 19.4	1 N
ATOM	592	С	GLN	Α	266	52.638	9.016	35.225	1.00 18.2	
ATOM	593	0	GLN			52.788	9.827	36.122	1.00 17.5	
ATOM	594	N	ARG							· •
						51.557	8.972	34.460	1.00 16.9	_
MOTA	596	CA	ARG			50.481	9.917	34.608	1.00 16.4	17 C
MOTA	598	CB	ARG	Α	267	49.371	9.619	33.611	1.00 16.4	
ATOM	601	CG	ARG	Α	267	49.736	9.852	32.147	1.00 17.6	
ATOM	604	CD	ARG			48.542	9.650	31.207	1.00 18.6	
ATOM	607	NE	ARG			48.884	9.329	29.818	1.00 18.7	
MOTA	609	CZ	ARG	А	267	49.280	8.128	29.373	1.00 18.7	'3 C
ATOM	610	NH1	ARG	Α	267	49.447	7.094	30.196	1.00 18.3	в в
ATOM	613		ARG			49.519	7.964	28.084	1.00 18.4	
ATOM	616	С	ARG			49.953	9.820	36.031		
									1.00 15.5	-
ATOM	617	0	ARG			49.721	10.824	36.677	1.00 15.0	0
ATOM	618	N	PHE	Α	268	49.813	8.595	36.511	1.00 14.7	'8 N
ATOM	620	CA	PHE	Α	268	49.328	8.313	37.844	1.00 14.5	
ATOM	622	CB	PHE			49.153	6.802	38.042	1.00 14.4	
ATOM	625	CG	PHE			48.644	6.431			11 0
								39.409	1.00 15.4	
ATOM	626		PHE			47.333	6.735	39.781	1.00 16.1	
ATOM	628		PHE	Α	268	46.870	6.418	41.029	1.00 15.6	66 C
ATOM	630	cz	PHE	A	268	47.701	5.803	41.943	1.00 15.4	16 C
MOTA	632	CE2	PHE	Α	268	49.006	5.517	41.614	1.00 16.3	
MOTA	634		PHE			49.481	5.827	40.342	1.00 15.8	
ATOM	636	C	PHE			50.262	8.866	38.915	1.00 14.3	
MOTA	637	0	PHE			49.802	9.415	39.901	1.00 14.8	30 O
ATOM	638	N	ALA	Α	269	51.564	8.708	38.740	1.00 13.9	
MOTA	640	CA	ALA			52.519	9.278	39.671	1.00 13.8	•
ATOM	642	CB	ALA			53.952				
							8.923	39.272	1.00 13.8	=
ATOM	646	C	ALA			52.337	10.784	39.692	1.00 13.9)2 C
MOTA	647	0	ALA	Α	269	52.425	11.408	40.728	1.00 13.4	l8 o
MOTA	648	N	HIS	Α	270	52.065	11.353	38.531	1.00 14.5	
MOTA	650	CA	HIS			51.950	12.792	38.371	1.00 15.1	
ATOM	652	CB	HIS							_
						51.847	13.132	36.863	1.00 15.3	
ATOM	655	CG	HIS			51.558	14.568	36.586	1.00 16.7	'6 C
MOTA	656		HIS			52.532	15.544	36.607	1.00 17.8	80 N
MOTA	658	CE1	HIS	Α	270	51.982	16.717	36.349	1.00 17.4	
ATOM	660		HIS			50.687	16.536	36.161	1.00 18.2	
ATOM	662		HIS			50.394	15.201	36.309		
									1.00 17.7	-
ATOM	664	_ <u>C</u>	HIS	A	210	50.767	13.335	39.190	1.00 15.3	34 C

ATOM	665	0	HIS A 270		50.933	14.279	39.933	1.00 15.27	
ATOM	666	Ν.			49.607	12.691	39.094	1.00 15.80	
ATOM	668	CA	PHE A 271		48.375	13.154	39.732	1.00 16.36	
ATOM	670	СВ	PHE A 271		47.198	12.370	39.184	1.00 16.83	
ATOM	673	CG	PHE A 271		46.637	12.890	37.892	1.00 18.89	
ATOM	674	CD1			46.672	14.235	37.568	1.00 20.17	
ATOM	676	CE1			46.117	14.690	36.381	1.00 21.37	
ATOM	678	CZ	PHE A 271		45.499	13.811	35.518	1.00 21.87	
MOTA	680	CE2			45.452	12.465	35.832	1.00 21.99	•
ATOM	682	CD2			46.018	12.011	37.012	1.00 21.37	
ATOM	684	C ·			48.392	12.907		1.00 16.44	
ATOM	685	0	PHE A 271		47.848	13.665	42.007	1.00 16.74	
ATOM	686	N	THR A 272		48.979	11.786	41.604	1.00 16.45	
ATOM	688	CA	THR A 272		49.315	11.465	42.984	1.00 16.20	
ATOM	690	CB	THR A 272		50.091	10.095	42.987	1.00 16.35	
ATOM	692	OG1	· · -		49.502	9.215	43.930	1.00 18.82	
MOTA	694	CG2			51.555	10.205	43.424	1.00 17.10	
ATOM	698	C	THR A 272		50.109	12.604	43.635	1.00 15.40	
ATOM	699	0	THR A 272		49.839	12.984	44.768	1.00 14.67	
ATOM ATOM	700	N	GLU A 273		51.073	13.165	42.903	1.00 15.13	
ATOM	702 704	CA	GLU A 273		51.881	14.272	43.421	1.00 14.90	
ATOM	704	CB	GLU A 273		53.159	14.412	42.607	1.00 15.52	
ATOM	710	CG CD	GLU A 273 GLU A 273		54.132	13.250	42.861	1.00 16.25	
ATOM	711	OE1	GLU A 273		55.249	13.169	41.859	1.00 17.92	
ATOM	712	OE2	GLU A 273		55.767	14.231	41.459	1.00 20.84	
ATOM	713	C	GLU A 273		55.652	12.039	41.496	1.00 21.55	
ATOM	714	ŏ	GLU A 273		51.098	15.593	43.497	1.00 14.74	
ATOM	715	N	LEU A 274		51.260	16.344	44.447	1.00 14.46	•
ATOM	717	CA	LEU A 274		50.218 49.336	15.862	42.535	1.00 14.42	
ATOM	719	CB	LEU A 274		48.498	17.031 17.207	42.631	1.00 14.65	•
MOTA	722	CG	LEU A 274		49.284	17.516	41.345	1.00 14.63	
ATOM	724	CD1	LEU A 274		48.414	17.415	40.068 38.840	1.00 14.28	
ATOM	728	CD2	LEU A 274		49.888	18.887	40.131	1.00 15.31	
MOTA	732	С	LEU A 274		48.409	16.917	43.851	1.00 14.98 1.00 14.54	
MOTA	733	0	LEU A 274		48.110	17.909	44.509	1.00 14.54	
ATOM	734	N	ALA A 275		47.983	15.693	44.149	1.00 13.96	
ATOM	736	CA	ALA A 275		47.077	15.424	45.260	1.00 13.49	
ATOM	738	CB	ALA A 275		46.490	13.991	45.142	1.00 13.49	
MOTA	742	С	ALA A 275		47.769	15.614	46.599	1.00 12.71	
ATOM	743	0	ALA A 275		47.163	16.055	47.552	1.00 13.39	
ATOM	744	N	ILE A 276	•	49.043	15.296	46.680	1.00 12.15	
ATOM	746	CA	ILE A 276		49.822	15.584	47.880	1.00 11.63	
ATOM	748	CB	ILE A 276		51.239	14.963	47.771	1.00 11.58	
ATOM	750	CG1	ILE A 276		51.135	13.464	48.083	1.00 12.30	
ATOM ATOM	753		ILE A 276		52.253	12.660	47.555	1.00 10.66	
ATOM	757 761	CG2	ILE A 276		52.208	15.634	48.723	1.00 10.38	-
ATOM	761 762	C	ILE A 276		49.937	17.077	48.118	1.00 11.95	
ATOM	763	O N	ILE A 276 ILE A 277		49.870	17.516	49.255	1.00 10.18	
ATOM	765	CA	ILE A 277		50.176	17.841	47.047	1.00 13.10	
ATOM	767	CB	ILE A 277		50.234	19.300	47.133	1.00 13.53	
ATOM	769	CG1	ILE A 277		50.340	19.980	45.751	1.00 13.51	
ATOM	772	CD1	ILE A 277		51.642	19.656	45.007	1.00 14.87	
ATOM	776	CG2	ILE A 277		52.851 50.176	19.778	45.806	1.00 16.04	
ATOM	780	C	ILE A 277		48.933	21.496 19.780	45.919	1.00 14.18	
MOTA	781	ŏ	ILE A 277		48.949	20.580	47.767	1.00 13.48	
MOTA	782	N	SER A 278		47.807	19.310	48.693	1.00 13.40	
MOTA	784	CA	SER A 278		46.491	19.716	47.246 47.775	1.00 13.36	
MOTA	786	CB	SER A 278		45.351	19.118	46.931	1.00 14.14 1.00 14.44	
ATOM	789	OG	SER A 278		44.147	18.996	47.666	1.00 14.44	
•			_				1	1.00 11.21	
			•						

ATOM	791	С	SER	Α	278	46.319	19.312	49.227	1.00 13.8	38		С
ATOM	792	0	SER			45.755	20.055	50.011	1.00 14.4			ŏ
ATOM	793	N	VAL			46.808	18.136	49.594	1.00 13.9	99		N
ATOM	795	CA	VAL			46.679	17.690	50.964	1.00 14.8		•	С
ATOM	797	CB	VAL			47.216	16.249	51.143	1.00 14.8			C
ATOM	799		VAL			47.349	15.886	52.625	1.00 14.8		•	C
ATOM ATOM	803 807	CGZ	VAL VAL			46.281 47.398	15.239 18.692	50.453 51.874	1.00 14.5			C
MOTA	808	0	VAL			46.882	19.094	52.900	1.00 16.			С 0
ATOM	809	N	GLN			48.576	19.131	51.464	1.00 16.			N
ATOM	811	CA	GLN			49.358	20.081	52.240	1.00 17.			Ċ
ATOM	813	СВ	GLN			50.696	20.330	51.561	1.00 17.			Č
ATOM	816	CG	GLN			51.648	21.199	52.336	1.00 18.	49		С
MOTA	819	CD	GLN			52.821	21.698	51.489	1.00 20.	11		С
MOTA	820		GLN			52.691	21.886	50.276	1.00 20.			0
MOTA	821	NE2	GLN			53.968	21.885	52.126	1.00 17.			N
ATOM	824	C	GLN			48.607	21.393	52.425	1.00 17.			C
ATOM	825	0	GLN			48.573	21.919	53.509	1.00 17.			0
ATOM ATOM	826 828	N CA	GLU GLU			47.999 47.150	21.901 23.077	51.369 51.490	1.00 17. 1.00 19.			N C
ATOM	830	CB	GLU			46.479	23.404	50.170	1.00 19.			C
ATOM	833	CG	GLU			47.420	23.843	49.093	1.00 22.			C
ATOM	836	CD	GLU			46.660	24.233	47.856	1.00 27.			C
ATOM	837		GLU			46.934	23.643	46.792	1.00 30.			ŏ
ATOM	838	OE2				45.782	25.135	47.962	1.00 31.	96		0
MOTA	839	C			281	46.043	22.888	52.500	1.00 19.			С
ATOM	840	0			281	45.854	23.709	53.358	1.00 19.			0
MOTA	841	N			282	45.307	21.796	52.390	1.00 19.			N
ATOM	843	CA			282	44.146	21.576	53.245	1.00 19.			C
MOTA MOTA	845 847	CB	ILE		282	43.429 42.746	20.290 20.483	52.816 51.465	1.00 19. 1.00 18.			C C
ATOM	850		ILE			42.449	19.148	50.700	1.00 18.			C
ATOM ·	854		ILE			42.458	19.819	53.876	1.00 17.			Ċ
ATOM	858	c			282	44.553	21.502	54.711	1.00 20.			č
ATOM	859	0			282	43.876	22.077	55.575	1.00 19.			0
ATOM	860	N			283	45.636	20.775	54.990	1.00 20.	45		N
ATOM	862	CA			283	46.130	20.610	56.361	1.00 21.			С
ATOM	864	CB			283	47.408	19.701	56.449				C
ATOM	866		VAL			48.047	19.807	57.813	1.00 19.			C
ATOM ATOM	870 874	CGZ	VAL		283	47.070 46.480	18.227 21.960	56.137 56.957	1.00 21. 1.00 21.		•	C
ATOM	875	Ö			283	46.096	22.243	58.078	1.00 21.			Ö
ATOM	876	N			284	47.250	22.754	56.206	1.00 21.			N
MOTA	878	CA			284	47.655	24.103	56.577	1.00 22.			Ċ
MOTA	880	CB	ASP	A	284	48.577	24.698		1.00 22.	91		С
MOTA	883	CG			284	50.020	24.107	55.480	1.00 27.			С
MOTA	884		ASP			50.889	24.703	54.784	1.00 30.			0
ATOM	885	_	ASP			50.395	23.067	56.106	1.00 31.			0
MOTA	886	C			284	46.425	25.030	56.773	1.00 21.			C
ATOM ATOM	887 888	O N			284 285	46.407 45.411	25.840 24.908	57.660 55.932	1.00 21.			0
ATOM	890	CA			285	44.184	25.687	56.068	1.00 21. 1.00 21.			N C
MOTA	892	CB			285	43.310	25.533	54.809	1.00 20.			c
ATOM ·	895	CG			285	41.915	26.101	54.959	1.00 20.			č
MOTA	896	CD1	PHE			41.652	27.439	54.699	1.00 20.			C
ATOM	898		PHE			40.362	27.961	54.842	1.00 18.			С
MOTA	900	CZ			285	39.340	27.144	55.257	1.00 18.			С
ATOM	902		PHE			39.597	25.818	55.542	1.00 20.			С
ATOM	904		PHE			40.870	25.298	55.384	1.00 18.			C
MOTA	906	C			285	43.393	25.309	57.350	1.00 21.			C
MOTA	907	<u> </u>	PHE	A	285	42.930	26.183	58.079	1.00 21.	00		0

MOTA	908	N	ALA				43.250	24.007	57.599	1.00 2	2.45		N
MOTA	910	CA ·	ALA	Α	286		42.525	23.497	58.759	1.00 2		•	C
MOTA	912	CB	ALA				42.534	22.013	58.751	1.00 2			C
ATOM	916	С	ALA	Α	286		43.087	24.021	60.086	1.00 2	3.89		С
MOTA	917	0	ALA				42.329	24.439	60.940	1.00 2	3.39		0
MOTA	918	N	LYS				44.410	24.029	60.262	.1.00 2	5.94		N
MOTA	920	CA	LYS				45.015	24.533	61.513				С
MOTA	922	CB	LYS	Α	287		46.507	24.197	61.565	1.00 2	8.33		С
MOTA	925	CG	LYS				46.819	22.686	61.828	1.00 3	2.10		С
MOTA	928	CD	LYS				46.778	22.320	63.378	1.00 3	5.99		С
MOTA	931		LYS				47.553	20.974	63.752	1.00 3	7.37		С
MOTA	934	NZ	LYS					19.675	63.380	1.00 3			N
MOTA		, C	LYS				44.792		61.744	1.00 2	7.29		С
MOTA	939	0	LYS				45.130	26.584	62.816	1.00 2	8.49		Ο,
MOTA	940	N	GLN				44.221	26.732	60.753	1.00 2			N
MOTA	942	CA	GLN	Α	288	•	43.874	28.147	60.863	1.00 2	5.65		С
MOTA	944	CB	GLN				44.391	28.877	59.638	1.00 2	5.37		С
MOTA	947	CG	GLN				45.840	28.657	59.473	1.00 2			С
MOTA	950	CD	GLN				46.530	29.881		1.00 3			С
ATOM	951		GLN				47.098	30.589	59.911	1.00 3			.0
ATOM .	952		GLN				46.469	30.178	57.793	1.00 3	5.01		N
MOTA	955	С	GLN				42.373	28.388	60.978	1.00 2	4.59		С
ATOM	956	0	GLN				41.934	29.528	61.136	1.00 2		,	0
ATOM	957	N	VAL				41.588	27.329	60.840	1.00 2			N
MOTA	959	CA	VAL				40.164	27.437	61.071	1.00 2			С
ATOM	961	СВ			289		39.438	26.211	60.571	1.00 2			.C
MOTA	963		VAL				37.983	26.292	60.952	1.00 2			С
ATOM	967		VAL				39.612	26.072	59.068	1.00 2			С
MOTA	971	C .			289		39.978	27.592	62.575	1.00 2			С
MOTA	972	0			289		40.404	26.735	63.311	1.00 2		•	0
MOTA	973	N			290		39.404	28.692	63.051	1.00 2			N
ATOM	974	CA			290		39.137	28.825	64.494	1.00 2			С
ATOM	976	СВ	PRO				38.396	30.150	64.589	1.00 2			С
MOTA	979	CG			290		38.922	30.917	63.436	1.00 2			С
ATOM	982						39.017	29.899	62.314	1.00 2			С
MOTA	985	C			290		38.291	27.676	65.047	1.00 2			C
MOTA	986	0			290		37.255	27.358	64.468	1.00 2			0
ATOM ATOM	987 989	N CA	GLY				38.751	27.065	66.134	1.00 2			N
ATOM	992				291 291	•	38.121	25.879	66.683	1.00 2			C
ATOM	992	C			291		38.995	24.637	66.533	1.00 2			С
ATOM	994	N N			292		39.035	23.783	67.423	1.00 2			0
ATOM	996	CA			292		39.719 40.445	24.534 23.307	65.426	1.00 2			N
ATOM	998	CB			292		41.023	23.307	65.129 63.728	1.00 2 1.00 2			C
MOTA	1001	CG			292		41.578	22.085	63.250	1.00 2			C
ATOM	1002		PHE				40.732	21.064	62.828	1.00 2			_
ATOM	1004		PHE				41.234	19.874	62.391	1.00 1			C
ATOM	1006	CZ			292		42.605	19.667	62.357	1.00 2			C
ATOM	1008		PHE				43.461	20.666	62.779	1.00 2			C
ATOM	1010		PHE				42.941	21.880	63.218	1.00 2			Č
ATOM	1012	C			292		41.526	22.950	66.161	1.00 2			č
ATOM	1013	ŏ			292		41.698	21.780	66.516	1.00 2			õ
MOTA	1014	N			293		42.245	23.938	66.674	1.00 2			N
ATOM	1016	CA			293		43.294	23.640	67.657	1.00 2			C
ATOM	1018	CB			293		44.482	24.610	67.522	1.00 2			Č
ATOM	1021	ĊĠ			293		45.426	24.276	66.332	1.00 3			č
ATOM	1023		LEU				46.377	25.443	66.010	1.00 3			č
ATOM	1027				293.		46.245	22.995	66.565	1.00 3		_	č
ATOM	1031	C			293		42.763	23.560	69.106	1.00 2		•	Č
ATOM	1032	ō			293	•	43.478	23.152	70.001	1.00 2			Ö
ATOM	1033	N			294		41.502	23.911	69.319	1.00 2			N
77.7													

ATOM 1035 CA GLN A 294 40.815 23.613 70.588 1.00 25.70 C ATOM 1040 CG GLN A 294 39.466 24.344 70.673 1.00 25.93 C ATOM 1040 CG GLN A 294 39.558 25.872 70.801 1.00 26.99 C ATOM 1043 CD GLN A 294 38.229 26.544 70.525 1.00 28.47 C ATOM 1044 OEI GLN A 294 38.162 27.566 69.818 1.00 30.90 O ATOM 1045 NEZ GLN A 294 38.162 27.566 69.818 1.00 30.90 O ATOM 1045 NEZ GLN A 294 40.548 22.111 70.764 1.00 25.05 C ATOM 1049 O GLN A 294 40.548 22.111 70.764 1.00 25.05 C ATOM 1049 O GLN A 294 40.548 22.111 70.764 1.00 25.05 C ATOM 1049 O GLN A 294 40.548 22.111 70.764 1.00 25.05 C ATOM 1049 O GLN A 294 40.548 22.111 70.764 1.00 25.05 C ATOM 1050 N LEU A 295 40.591 21.333 69.673 1.00 24.15 N ATOM 1050 N LEU A 295 40.591 21.333 69.673 1.00 24.15 N ATOM 1050 N LEU A 295 40.591 21.333 69.673 1.00 24.15 N ATOM 1050 N LEU A 295 40.591 21.333 69.673 1.00 24.15 N ATOM 1063 CDZ LEU A 295 33.927 19.357 68.358 1.00 22.96 C ATOM 1063 CDZ LEU A 295 38.502 19.227 66.544 1.00 23.39 C ATOM 1063 CDZ LEU A 295 38.502 19.227 66.544 1.00 23.39 C ATOM 1063 CDZ LEU A 295 41.694 19.149 70.077 1.00 24.30 C ATOM 1068 O LEU A 295 41.694 19.149 70.077 1.00 23.41 C ATOM 1069 N GLY A 296 42.663 17.104 70.977 1.00 21.81 N ATOM 1071 CA GLY A 296 42.663 17.104 70.977 1.00 20.46 C ATOM 1070 C ATOM 1070 C AGAY A 296 42.643 16.616 68.628 1.00 20.45 O ATOM 1070 N ARG A 297 44.564 16.626 69.90 1.00 20.72 C ATOM 1070 N ARG A 297 44.564 16.626 69.90 1.00 20.72 C ATOM 1070 N ARG A 297 44.564 16.626 69.90 1.00 20.72 C ATOM 1070 N ARG A 297 44.564 16.626 69.90 1.00 20.72 C ATOM 1070 C ARG A 297 45.304 15.893 68.585 1.00 20.45 O ATOM 1070 N ARG A 297 44.564 16.626 69.90 1.00 20.77 N ATOM 1070 N ARG A 297 44.564 16.626 69.90 1.00 20.77 N ATOM 1070 C ARG A 297 44.564 16.256 69.90 1.00 20.77 C ATOM 1090 C ARG A 297 44.564 16.256 69.90 1.00 20.77 C ATOM 1090 C ARG A 297 44.564 16.256 69.90 1.00 20.77 C ATOM 1090 C ARG A 297 44.564 16.256 69.90 1.00 20.77 C ATOM 1090 C ARG A 297 44.564 16.256 69.90 1.00 20.77 C ATOM 1090 C ARG A 297 44.564 16.256 69.90 1.00 20.77 C ATOM 1090													
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ATOM 1040 CG GLN A 294 39.558 25.872 70.801 1.00 26.59 C ATOM 1043 CD GLN A 294 38.229 26.544 70.525 1.00 28.477 C ATOM 1045 NEZ GLN A 294 38.162 27.566 69.818 1.00 30.90 N ATOM 1045 NEZ GLN A 294 40.272 21.681 70.00 28.477 C ATOM 1045 NEZ GLN A 294 40.272 21.681 70.00 30.90 N ATOM 1048 C GLN A 294 40.272 21.681 70.00 50.91 N ATOM 1049 C GLN A 294 40.272 21.681 70.00 50.91 N ATOM 1050 N LEU A 295 40.591 21.333 69.673 1.00 24.15 N ATOM 1050 N LEU A 295 40.401 19.879 69.717 1.00 23.01 C ATOM 1050 C ALEU A 295 39.927 19.357 68.358 1.00 22.96 C ATOM 1057 CG LEU A 295 38.507 19.367 68.358 1.00 22.96 C ATOM 1050 C ALEU A 295 38.507 19.746 67.927 1.00 23.01 C ATOM 1050 C ALEU A 295 38.507 19.746 67.927 1.00 23.01 C ATOM 1050 C ALEU A 295 38.507 19.746 68.942 1.00 25.45 C ATOM 1067 C LEU A 295 37.457 19.227 66.942 1.00 25.45 C ATOM 1068 C LEU A 295 37.457 19.227 66.942 1.00 25.45 C ATOM 1067 C LEU A 295 37.457 19.227 66.942 1.00 25.45 C ATOM 1068 C LEU A 295 42.759 19.625 69.776 1.00 22.31 C ATOM 1068 C LEU A 295 42.759 19.625 69.776 1.00 22.31 C ATOM 1068 C LEU A 295 42.759 19.625 69.776 1.00 21.41 N ATOM 1067 C GLY A 296 42.663 17.104 70.977 1.00 22.31 C ATOM 1071 C ALEU A 295 42.759 19.625 69.776 1.00 21.41 N ATOM 1071 C ALEU A 295 42.659 17.104 70.977 1.00 20.64 C ATOM 1071 C ALEU A 295 42.659 17.104 70.977 1.00 20.45 C ATOM 1071 C ALEU A 295 42.659 17.104 70.977 1.00 20.72 C ATOM 1071 C ALEU A 296 42.663 17.104 70.977 1.00 20.79 N N ATOM 1071 C ALEU A 296 42.663 17.104 70.977 1.00 20.79 N N ATOM 1078 C ALEU A 296 42.663 17.104 70.977 1.00 20.79 N N ATOM 1078 C ALEU A 296 42.663 17.104 70.977 1.00 20.79 C ATOM 1078 C ALEU A 296 42.663 17.104 70.977 1.00 20.79 C ATOM 1078 C ALEU A 298 42.643 15.656 69.650 1.00 20.79 C ATOM 1078 C ALEU A 298 42.643 15.656 69.650 1.00 20.79 N N ATOM 1078 C ALEU A 298 42.643 15.656 69.650 1.00 20.79 N N ATOM 1078 C ALEU A 298 42.643 15.656 69.650 1.00 20.79 N N ATOM 1079 C ALEU A 298 43.599 19.506 69.666 1.00 20.70 N N N ATOM 1079 C ALEU A 298 42.261 11.556 69.660 1.00 20.70 N N N ATOM		ATOM											
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AROM 1059 CD1 LEU A 295 38.202 19.233 66.544 1.00 23.39 C AROM 1063 CD2 LEU A 295 41.684 19.149 70.077 1.00 22.31 C AROM 1068 O LEU A 295 41.684 19.149 70.077 1.00 22.31 C AROM 1068 O LEU A 295 42.779 19.625 69.776 1.00 21.89 O GLY A 296 41.500 17.980 70.708 1.00 21.41 N ATOM 1071 CA GLY A 296 42.663 17.104 70.977 1.00 20.64 C AROM 1074 C GLY A 296 42.663 17.104 70.977 1.00 20.64 C AROM 1075 O GLY A 296 42.663 17.104 70.977 1.00 20.64 C AROM 1075 O GLY A 296 42.663 17.104 70.977 1.00 20.64 C AROM 1076 N ARG A 297 44.564 16.256 69.767 1.00 20.79 N ATOM 1076 N ARG A 297 45.304 15.833 68.585 1.00 21.83 C AROM 1080 CB ARG A 297 45.304 15.833 68.585 1.00 21.83 C AROM 1080 CB ARG A 297 47.742 15.855 67.793 1.00 22.29 C AROM 1083 CG ARG A 297 49.943 15.212 66.805 1.00 31.77 C AROM 1086 CD ARG A 297 49.943 15.212 66.805 1.00 31.77 C AROM 1091 CZ ARG A 297 49.943 15.212 66.805 1.00 31.77 C AROM 1092 NH1 ARG A 297 49.943 15.212 66.805 1.00 31.77 C AROM 1092 NH1 ARG A 297 44.607 14.665 67.881 1.00 21.67 N AROM 1095 NH2 ARG A 297 44.607 14.665 67.881 1.00 21.67 C AROM 1098 C ARG A 297 44.607 14.665 67.881 1.00 21.67 C AROM 1099 C ARG A 297 44.607 14.665 67.881 1.00 21.67 C AROM 1099 C ARG A 297 44.607 14.565 67.881 1.00 21.67 C AROM 1099 C ARG A 297 44.607 14.565 67.881 1.00 21.67 C AROM 1099 C ARG A 297 44.607 14.565 67.881 1.00 21.67 C AROM 1099 C ARG A 297 44.607 14.565 67.881 1.00 21.67 C AROM 1099 C ARG A 297 44.607 14.565 67.881 1.00 21.67 C AROM 1100 N GLU A 298 43.899 10.300 69.066 1.00 26.31 C AROM 1101 C G GLU A 298 43.899 10.300 69.066 1.00 26.31 C AROM 1101 C G GLU A 298 43.899 10.300 69.066 1.00 26.31 C AROM 1101 C G GLU A 298 43.899 10.300 69.066 1.00 26.31 C AROM 1110 C G GLU A 298 45.299 10.500 69.066 1.00 26.31 C AROM 1110 C G GLU A 298 45.299 10.500 69.066 1.00 20.17 O AROM 1111 C G GLU A 298 45.299 10.500 69.066 1.00 20.17 O AROM 1112 C G GLU A 298 45.299 10.500 69.066 1.00 20.04 C AROM 1113 C G GLU A 298 45.299 10.500 69.066 1.00 20.00 0.00 0.00 0.00 0.00 0.00 0.0													С
ATOM 1063 CD2 LEU A 295					TEO Y	A 295							С
ATOM 1067 C LEU A 295 41.684 19.149 70.077 1.00 25.45 C ATOM 1068 O LEU A 295 41.684 19.149 70.077 1.00 22.31 C C ATOM 1069 N CLY A 296 41.540 17.980 70.708 1.00 21.41 N ATOM 1071 CA GLY A 296 42.663 17.104 70.977 1.100 20.64 C ATOM 1074 C G GLY A 296 42.663 17.104 70.977 1.100 20.64 C ATOM 1075 O GLY A 296 42.663 17.104 70.977 1.100 20.64 C ATOM 1075 O GLY A 296 42.663 17.104 70.977 1.00 20.45 ATOM 1075 O GLY A 296 42.663 17.104 70.977 1.00 20.45 ATOM 1076 N ARG A 297 44.564 16.265 69.767 1.00 20.45 ATOM 1078 CA ARG A 297 45.304 15.833 68.585 1.00 21.83 C ATOM 1080 CB ARG A 297 45.304 15.833 68.585 1.00 21.83 C ATOM 1080 CB ARG A 297 49.251 15.569 69.767 1.00 20.6510 C ATOM 1080 CB ARG A 297 49.251 15.569 69.767 1.00 20.6510 C ATOM 1080 CB ARG A 297 49.251 15.569 68.055 1.00 31.77 C C ATOM 1086 CD ARG A 297 49.251 15.569 68.055 1.00 31.77 C C ATOM 1080 CB ARG A 297 49.251 15.569 66.402 1.00 39.10 C C ATOM 1081 CZ ARG A 297 49.251 15.569 66.402 1.00 39.10 C C ATOM 1092 NHI ARG A 297 49.943 15.212 66.805 1.00 31.77 C C ATOM 1092 NHI ARG A 297 44.577 14.584 66.402 1.00 39.38 N N ATOM 1092 NHI ARG A 297 44.577 14.584 66.637 1.00 20.167 C ATOM 1098 C ARG A 297 44.577 14.584 66.637 1.00 20.167 C ATOM 1098 C ARG A 297 44.577 14.584 66.637 1.00 21.67 C ATOM 1090 C ARG A 298 43.399 12.583 68.064 1.00 21.67 C ATOM 1090 C ARG A 298 43.399 12.583 68.064 1.00 21.67 C C ATOM 110 C C GLU A 298 43.389 10.300 69.066 1.00 26.31 C C ATOM 110 C C GLU A 298 43.899 10.300 69.066 1.00 22.29 C C ATOM 110 C C GLU A 298 43.899 10.300 69.066 1.00 22.29 C C ATOM 110 C C GLU A 298 43.899 10.300 69.066 1.00 22.29 C C ATOM 111 C C GLU A 298 43.899 10.300 69.066 1.00 20.170 C C ATOM 111 C C GLU A 298 43.899 10.300 69.066 1.00 20.170 C C ATOM 111 C C GLU A 298 43.899 10.300 69.066 1.00 20.170 C C ATOM 111 C C GLU A 298 43.899 10.300 69.066 1.00 20.170 C C ATOM 111 C C GLU A 298 43.899 10.300 69.066 1.00 20.170 C C ATOM 111 C C GLU A 298 43.899 10.300 69.066 1.00 20.170 C C ATOM 111 C C GLU A 298 43.899 10.300 69.066 1.00 20.00 0.00 0.00 0.00										1.00	23.39		С
ATOM 1068 O LEU A 295													
ATOM 1069 N GLY A 296									70.077	1.00	22.31		
ATOM 1071 CA 296 41.540 17.980 70.708 1.00 21.41 N. ATOM 1071 CA C GLY A 296 42.663 17.104 70.977 1.00 20.664 C. ATOM 1075 0 GLY A 296 43.296 16.632 69.690 1.00 20.72 C. ATOM 1076 N. ARG A 297 44.564 16.256 69.767 1.00 20.79 N. ATOM 1078 CA ARG A 297 44.564 16.256 69.767 1.00 20.79 N. ATOM 1078 CA ARG A 297 44.564 16.256 69.767 1.00 20.79 N. ATOM 1080 CB ARG A 297 47.742 15.855 67.793 1.00 22.29 C. ATOM 1083 CG ARG A 297 47.742 15.855 67.793 1.00 22.29 C. ATOM 1080 CB ARG A 297 49.251 15.569 68.055 1.00 31.77 C. ATOM 1081 CG ARG A 297 49.943 15.212 66.805 1.00 31.77 C. ATOM 1091 CZ ARG A 297 49.943 15.212 66.805 1.00 39.10 C. ATOM 1091 CZ ARG A 297 49.964 12.893 67.148 1.00 39.38 N. ATOM 1092 N. ARG A 297 50.686 13.796 65.228 1.00 40.91 N. ATOM 1098 C ARG A 297 44.607 14.665 67.881 1.00 21.67 C. ATOM 1090 O. ARG A 297 44.607 14.665 67.881 1.00 21.67 C. ATOM 1100 N. GLU A 298 44.025 13.763 68.663 1.00 21.10 O. ATOM 1100 C. ARG A 298 43.399 12.583 68.063 1.00 21.10 O. ATOM 1100 C. GLU A 298 43.399 12.583 68.064 1.00 21.70 C. ATOM 1100 C. GLU A 298 43.399 12.583 68.064 1.00 21.70 C. ATOM 1101 CD. GLU A 298 43.899 10.330 69.066 1.00 22.29 C. ATOM 1110 CD. GLU A 298 45.289 10.530 69.545 1.00 33.78 O. ATOM 1111 CDE1 GLU A 298 45.289 10.530 69.545 1.00 33.78 O. ATOM 1112 CDE2 GLU A 298 45.289 10.530 69.545 1.00 33.78 O. ATOM 1112 CDE2 GLU A 298 45.289 10.530 69.545 1.00 33.78 O. ATOM 1112 CDE2 GLU A 298 45.289 10.530 69.545 1.00 33.78 O. ATOM 1112 CDE3 GLU A 298 45.289 10.530 69.545 1.00 33.78 O. ATOM 1112 CDE3 GLU A 298 45.289 10.530 69.666 1.00 22.29 C. ATOM 1112 CDE3 GLU A 298 45.289 10.530 69.666 1.00 22.29 C. ATOM 1112 CDE3 GLU A 298 45.289 10.530 69.666 1.00 22.29 C. ATOM 1112 CDE3 GLU A 298 45.289 10.530 69.666 1.00 22.29 C. ATOM 1112 CDE3 GLU A 298 45.289 10.530 69.666 1.00 22.29 C. ATOM 1114 CDE3 GLU A 298 45.289 10.530 69.666 1.00 22.29 C. ATOM 1114 CDE3 GLU A 298 45.289 10.530 69.666 1.00 22.29 C. ATOM 1114 CDE3 GLU A 298 42.212 12.959 67.179 1.00 20.177 C. ATOM 1114 CDE3 GLU A 298 42.212 12.959 67.179 1.00										1.00	21.89		
ATOM 1074 C GLY A 296								17.980					
ATOM 1075 O GIY A 296									70.977	1.00	20.64		
ATOM 1076 N ARG A 297							43.296	16.632	69.690 a	1.00	20.72	•	
ATOM 1078 CA ARGA 297 44.564 16.256 69.767 1.00 20.79 N ATOM 1080 CB ARGA 297 46.768 15.833 68.585 1.00 21.83 C ATOM 1080 CB ARGA 297 46.768 15.835 67.793 1.00 22.29 C ATOM 1080 CB ARGA 297 47.742 15.855 67.793 1.00 22.29 C ATOM 1080 CD ARGA 297 49.251 15.569 68.055 1.00 31.77 C ATOM 1080 CB ARGA 297 49.251 15.569 68.055 1.00 31.77 C ATOM 1080 CB ARGA 297 49.251 15.569 68.055 1.00 39.10 C ATOM 1091 CZ ARGA 297 49.943 15.212 66.805 1.00 39.10 C ATOM 1092 NH1 ARGA 297 49.964 12.893 67.148 1.00 39.38 N ATOM 1095 NH2 ARGA 297 49.964 12.893 67.148 1.00 39.38 N ATOM 1095 NH2 ARGA 297 44.607 14.665 67.881 1.00 40.91 N ATOM 1099 C ARGA 297 44.577 14.584 66.637 1.00 21.67 C ATOM 1090 O ARGA 298 44.025 13.763 68.663 1.00 21.69 N ATOM 1100 N GLU A 298 43.399 12.583 68.064 1.00 21.69 N ATOM 1100 C G GLU A 298 43.399 12.583 68.064 1.00 22.29 C ATOM 1107 CG GLU A 298 43.859 10.300 69.066 1.00 22.29 C ATOM 1110 CD GLU A 298 45.289 10.530 69.545 1.00 31.15 C ATOM 1111 OCI GLU A 298 45.642 10.001 70.624 1.00 33.78 O ATOM 1112 OCE2 GLU A 298 45.642 10.001 70.624 1.00 33.78 O ATOM 1111 C GLU A 298 42.075 12.446 66.063 1.00 20.17 C ATOM 1111 C GLU A 298 42.075 12.446 66.063 1.00 20.17 C ATOM 1111 C GASPA 299 38.439 14.204 68.619 1.00 20.17 C ATOM 1110 C ARSPA 299 38.439 14.204 68.619 1.00 20.17 C ATOM 1111 C CA ASP A 299 39.245 15.512 16.7.722 1.00 20.18 C ATOM 1112 OC2 GLU A 298 42.075 12.446 66.063 1.00 19.77 N ATOM 1112 C CA GLU A 298 42.075 12.446 66.063 1.00 20.44 C ATOM 1112 C CA GLU A 298 42.075 12.446 66.063 1.00 20.44 C ATOM 1112 C CA GLU A 298 42.075 12.446 66.063 1.00 20.04 C ATOM 1113 C GLU A 298 42.075 12.446 66.063 1.00 20.04 C ATOM 1114 C GLU A 298 42.075 12.446 66.063 1.00 20.04 C ATOM 1115 N ASPA 299 37.647 14.629 69.493 1.00 20.19 C ATOM 1124 OD2 ASPA 299 38.439 14.204 68.619 1.00 20.94 C ATOM 1127 C GASPA 299 37.647 14.629 69.493 1.00 20.08 C ATOM 1128 C GLU A 300 44.476 19.456 66.5189 1.00 20.08 C ATOM 1129 C ASPA 299 37.647 14.629 69.493 1.00 20.98 C ATOM 1130 C GLU A 300 44.476 19.457 66.5189 1.00 20.98 C ATO				0			42.643	16.616		1.00	20.45		
ATOM 1080 CB ARG A 297				N			44.564	16.256	69.767				
ATCM 1080 CB ARG A 297 46.768 15.477 68.923 1.00 22.29 C ATCM 1083 CG ARG A 297 47.742 15.855 67.793 1.00 26.10 C ATCM 1086 CD ARG A 297 49.251 15.569 68.055 1.00 31.77 C ATCM 1089 NE ARG A 297 49.251 15.569 66.055 1.00 31.77 C ATCM 1089 NE ARG A 297 49.943 15.212 66.805 1.00 39.10 C ATCM 1091 CZ ARG A 297 49.964 12.893 67.148 1.00 39.38 N ATCM 1095 NH2 ARG A 297 50.856 13.796 65.228 1.00 40.91 N ATCM 1095 NH2 ARG A 297 50.856 13.796 65.228 1.00 40.91 N ATCM 1095 NH2 ARG A 297 44.607 14.665 67.881 1.00 21.67 C ATCM 1099 O ARG A 297 44.577 14.584 66.637 1.00 21.10 O ATCM 1099 O ARG A 297 44.577 14.584 66.637 1.00 21.67 C ATCM 1099 O ARG A 297 44.577 14.584 66.637 1.00 21.69 N ATCM 1100 N GLU A 298 43.399 12.583 68.064 1.00 21.70 N ATCM 1101 CD GLU A 298 43.399 12.583 68.064 1.00 21.70 N ATCM 1101 CD GLU A 298 43.859 10.300 69.066 1.00 26.31 C ATCM 1110 CD GLU A 298 43.859 10.300 69.066 1.00 26.31 C ATCM 1110 CD GLU A 298 45.289 10.530 69.545 1.00 33.78 O ATCM 1111 CD GLU A 298 45.642 10.001 70.624 1.00 33.78 O ATCM 1111 CD GLU A 298 42.212 12.959 67.179 1.00 20.17 C ATCM 1113 C GLU A 298 42.212 12.959 67.179 1.00 20.17 C ATCM 1114 O GLU A 298 42.212 12.959 67.179 1.00 20.17 C ATCM 1115 N ASP A 299 41.376 13.8661 67.667 1.00 19.77 N ATCM 1117 CA ASP A 299 39.245 15.121 67.722 1.00 20.18 C ATCM 1119 CB ASP A 299 39.245 15.121 67.722 1.00 20.18 C ATCM 1119 CB ASP A 299 39.245 15.121 67.722 1.00 20.18 C ATCM 1123 OD1 ASP A 299 39.245 15.121 67.722 1.00 20.18 C ATCM 1124 OD2 ASP A 299 39.245 15.121 67.722 1.00 20.18 C ATCM 1124 OD2 ASP A 299 39.245 15.121 67.722 1.00 20.18 C ATCM 1125 C ASP A 299 39.245 15.121 67.722 1.00 20.18 C ATCM 1126 O ASP A 299 39.245 15.121 67.722 1.00 20.18 C ATCM 1126 O ASP A 299 39.245 15.121 67.722 1.00 20.18 C ATCM 1126 C ASP A 299 39.245 15.121 67.722 1.00 20.18 C ATCM 1127 N GLN A 300 41.753 15.936 65.984 1.00 20.59 N ATCM 1126 C ASP A 299 39.245 15.121 67.722 1.00 20.18 C ATCM 1127 N GLN A 300 41.753 15.936 65.984 1.00 20.59 N ATCM 1129 CA GLN A 300 42.266 16.728 64.635 1.00 20.59 N A				CA	ARG A	A 297	45.304	15.833	68.585				
ATOM 1086 CD ARG A 297		ATOM	1080	CB			46.768						
ATOM 1086 CD ARG A 297		ATOM	1083	CG	ARG A	A 297	47.742	15.855					
ATOM 1089 NE ARG A 297 49.943 15.212 66.805 1.00 35.40 N ATOM 1091 CZ ARG A 297 50.247 13.968 66.402 1.00 39.10 C ATOM 1092 NH1 ARG A 297 49.964 12.893 67.148 1.00 39.38 N ATOM 1095 NH2 ARG A 297 50.856 13.796 65.228 1.00 40.91 N ATOM 1098 C ARG A 297 44.607 14.665 67.881 1.00 21.67 C ATOM 1099 O ARG A 297 44.507 14.584 66.637 1.00 21.10 O ATOM 1100 N GLU A 298 44.025 13.763 68.663 1.00 21.69 N ATOM 1102 CA GLU A 298 43.399 12.583 68.064 1.00 21.70 C ATOM 1104 CB GLU A 298 43.006 11.551 69.120 1.00 22.29 C ATOM 1107 CG GLU A 298 43.859 10.300 69.066 1.00 26.31 C ATOM 1110 CD GLU A 298 45.289 10.530 69.066 1.00 26.31 C ATOM 1111 OE1 GLU A 298 45.289 10.530 69.545 1.00 31.15 C ATOM 1111 OE2 GLU A 298 45.642 10.001 70.624 1.00 33.78 O ATOM 1112 OE2 GLU A 298 42.075 12.446 66.063 1.00 19.77 N ATOM 1114 O GLU A 298 42.075 12.446 66.063 1.00 19.77 N ATOM 1115 N ASP A 299 40.245 14.346 66.869 1.00 20.17 C ATOM 1117 CA ASP A 299 40.245 14.346 66.869 1.00 20.17 N ATOM 1117 CB ASP A 299 39.245 15.121 67.722 1.00 20.18 C ATOM 1122 CG ASP A 299 39.245 15.121 67.722 1.00 20.18 C ATOM 1124 OD2 ASP A 299 39.245 15.121 67.722 1.00 20.18 C ATOM 1125 C ASP A 299 38.605 12.955 68.494 1.00 21.95 C ATOM 1126 O ASP A 299 39.245 15.121 67.722 1.00 20.18 C ATOM 1127 N GLN A 300 41.753 15.936 65.826 1.00 21.48 O ATOM 1124 O GLN A 300 41.753 15.936 65.826 1.00 21.48 O ATOM 1124 O GLN A 300 41.753 15.936 65.826 1.00 20.59 N ATOM 1124 O GLN A 300 41.753 15.936 65.826 1.00 20.59 N ATOM 1124 O GLN A 300 44.471 19.457 66.511 1.00 21.79 C ATOM 1124 O GLN A 300 44.296 16.728 64.743 1.00 22.98 C ATOM 1134 CG GLN A 300 44.471 19.457 66.511 1.00 23.70 N ATOM 1134 CG GLN A 300 44.471 19.457 66.511 1.00 23.70 N ATOM 1144 N ILE A 301 43.769 13.762 62.935 1.00 20.32 N ATOM 1148 CB LLA 301 43.769 13.762 62.935 1.00 20.10 C		ATOM		CD	ARG A	A 297							
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ATOM 1092 NH1 ARG A 297		ATOM	1091	CZ	ARG A	A 297							
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ATOM	1153	CD	l ILE	A 30	1	47.094	10 650	64 550					
ATOM	1157	CG2	2 ILE	A 30	01	44.861	12.652 11.468			20.19		C	
MOTA	1161	C	ILE	A 30)1	42.528	13.081			19.73		C	
MOTA	1162		ILE	A 30) 1	42.393	12.934			19.30		. C	,
ATOM	1163	N		A 30		41.592				20.20		. 0)
ATOM		CA		A 30		40.423	12.699			18.41		. N	
ATOM	1167	CB		A 30		39.596	11.988	62.705	1.00	17.85		С	;
ATOM	1171	Ċ		A 30		39.581	11.477	63.848	1.00	17.81		С	;
MOTA	1172	Ö	AT.A	A 30	12		12.853			17.44		С	:
ATOM	1173	N		A 30		39.141	12.349			16.93		Ø	
ATOM	1175	CA		A 30		39.388 38.604	14.139	62.037	1.00	17.37		N	
ATOM	1177	СВ	LEU	A 30	13	38.300	15.043	61.173	1.00	17.82		С	,
ATOM	1180	CG	LEU	A 30	,3 13	37.480	16.363	61.873	1.00	17.79		C	;
ATOM	1182		LEU	A 30	13	. 37.279	16.301	63.158	1.00	18.21		С	
MOTA	1186	CD2	LEU	A 30	13	36.154	17.701	63.689	1.00	17.38		. С	
ATOM	1190	C		A 30		39.301	15.590	62.942	1.00	19.92		С	
ATOM	1191	0		A 30		38.660	15.371 15.510	59.849		18.27		, C	
ATOM	1192	N	LEU	A 30	4	40.621	15.498	58.837	1.00	17.83		0	•
ATOM	1194	.CA		A 30		41.403	15.679	59.873	1.00	19.62	•	N	
ATOM	1196	CB		A 30		42.834	16.034	58.652		20.56		C	
ATOM	1199	CG		A 30		43.051	17.515	59.006	1.00	20.86			
ATOM .	1201		LEU	A 30	4	44.480		59.237	1.00	22.96		· C	
ATOM	1205	CD2	LEU	A 30	4	42.745	17.746 18.325	59.691	1.00	24.33		C	
ATOM	1209	С	LEU	A 30	4	41.412	14.443	57.974	1.00	25.50		C	
ATOM	1210	0	LEU	A 30	4	41.271	14.540	57.758	1.00	20.17		C	
ATOM	1211	N	LYS	A 30	5	41.571	13.279	56.560	1.00	20.16		0	
MOTA	1213	CA	LYS	A 30	5	41.569	12.034	58.352 57.601	1.00	20.84			
ATOM	1215	CB	LYS	A 30	5	41.650	10.840	58.571	1.00	21.26		C	
ATOM	1218	CG		A 30		42.794	9.817	58.317		22.15		С	
ATOM	1221	. CD		A 30		43.955	10.024	59.284		23.68		С	
MOTA	1224	CE		A 30		45.192	9.197	58.921	1.00	25.40 25.14		C	
MOTA	. 1227	NZ	LYS	A 30	5.	45.648	8.320	60.048	1 00	25.14		C	
MOTA	1231	С	LYS	A 30	5	40.274	11.964	56.779	1 00	21.35		N	
MOTA	1232	0	LYS	A 30	5	40.280	11.754	55.545	1 00	21.00		C	
MOTA	1233	N	ALA	A 30	6	39.156	12.190	57.456		20.89		0	
MOTA	1235	CA		A 30		37.855	12.083	56.798	1 00	20.69		N	
ATOM	1237	CB		A 30		36.760	11.955	57.841	1 00	20.73		C	
ATOM	1241	С	ALA	A 30	6	37.569	13.242	55.838		20.73		C	
ATOM	1242	0		A 30		36.977	13.038	54.794	100	20.34		C	
ATOM	1243	N	SER	A 30	7	38.026	14.443	56.165	1.00	19.59		O N	
ATOM	1245	CA	SER	A 30	7	37.675	15.630	55.391	1.00	19.91		C	
ATOM ATOM	1247	CB	SER	A 30	7	37.931	16.901	56.212	1.00	20.19		C	
ATOM	1250	OG	SER	A 30	7	36.768	17.182	56.937	1.00	25.77		ŏ	
ATOM	1252	C	SER	A 30	7	38.480	15.773	54.130	1.00			C	
ATOM	1253 1254	0	SER.	A 30	7	38.041	16.433	53.190	1.00	18.68		ő	
ATOM	1256	N	THK .	A 308	3	39.696	15.237	54.138	1.00			Ň	
ATOM	1258	CA	THK.	A 308	3	40.646	15.594	53.122	1.00	17.45		Ċ	
ATOM	1260	CB	THK .	A 308	3	41.983	14.910	53.345	1.00	17.47		č	
ATOM	1262	OG1		A 308	3	42.680	15.539	54.440	1.00			ŏ	
ATOM	1266	CG2 C		A 308		42.886	15.176	52.174	1.00			č	
ATOM	1267	0		A 308		40.124	15.315	51.721	1.00			· č	
ATOM .	1268	N		A 308		40.159	16.190	50.878	1.00			ō	
ATOM	1270	CA	TIP :	A 309 A 309	7	39.625	14.120	51.472	1.00			N	
ATOM	1272	CB	TIP I	A 309	,	39.153	13.784	50.119	1.00	18.16		Ĉ	
ATOM	1274		ITE Y	7 200 7 205	, . 1	38.797	12.265	49.988	1.00	18.17		Č	
ATOM	1277	CD1	ILE A	V 300	7	38.542	11.879	48.541	1.00			C	
ATOM	1281		ILE A			39.783	11.691	47.752	1.00	21.05		Ċ	
ATOM	1285	C		A 309		37.551	11.885	50.817	1.00			C	
ATOM	1286	Õ	TLE 2	A 309	,	37.972	14.686	49.730	1.00			C	
ATOM	1287	N	GLU Z	A 310	, 1	37.879 37.100	15.150	48.598	1.00		•	0	
•	•		Z		•	27.100	14.957	50.685	1.00	18.37		N	
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ATOM 1413 C ALA A 317 33.242 22.340 39.943 1.00.22.69	ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	1383 1386 1387 1388 1389 1390 1391 1395 1397 1403 1404 1405 1405	CB CG CD CC C O N CAB CG CC C C C C C C C C C C C C C C C C	A A A A A A A A A A A A A A A A A A A	310 0 0 0 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 3 3 3 3 3	36.289 35.742 37.238 37.696 38.582 37.696 38.582 37.772 38.615 39.139 38.413 38.248 39.837 40.881 42.969 43.078 35.601 36.025 35.081 36.374 35.863 35.880 35.398 35.214 32.691 33.653 36.374 35.690 37.675 38.718 40.090 40.261 39.999 40.882 38.883 38.824 39.602 38.783 37.558 36.248 37.558 36.248 37.558 36.248 37.558	15.273 15.386 18.049 18.627 17.356 17.309 16.308 14.853 13.994 14.422 18.680 19.124 19.357 20.745 21.285 21.706 21.229 21.630 22.385 21.513 22.322 22.136 22.870 24.370 24.824 21.969 22.883 20.701 20.246 21.286 21.286 22.870 24.824 21.286 22.870 24.824 21.286 22.870 24.824 21.286 22.870 24.824 21.286 22.870 24.824 21.286 22.870 24.824 21.286 22.870 24.824 21.286 22.870 24.824 21.286 22.870 24.824 21.286 22.870 24.824 21.286 22.870 22.870 22.870 24.824 21.286 22.870	51.659 51.869 51.869 51.869 52.950 53.398 50.125 53.398 50.125	1.00 21.65 1.00 22.47 1.00 23.37 1.00 19.22 1.00 19.19 1.00 20.59 1.00 18.33 1.00 17.23 1.00 16.82 1.00 16.30 1.00 16.45 1.00 16.45 1.00 16.63 1.00 16.63 1.00 16.63 1.00 16.63 1.00 15.49 1.00 15.49 1.00 15.49 1.00 15.79 1.00 15.79 1.00 15.79 1.00 15.79 1.00 16.63 1.00 15.79 1.00 16.72 1.00 16.72 1.00 16.73 1.00 16.73 1.00 17.93 1.00 17.93 1.00 17.93 1.00 17.93 1.00 17.93 1.00 17.93 1.00 17.93 1.00 17.93 1.00 17.93 1.00 17.93 1.00 17.93 1.00 17.93 1.00 17.93 1.00 18.93	CC SCCONCCCCONCCCCONCCCCOOCONCCCONCCCC
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- BMON 1814 C 010 0 517 - 111.709 77.4300 344000 4777 4777									3 1.00 21.5	
ATOM 1409 CB ADA 1 217 25 204 22 209 41 038 1 00 21 54 C							•		1.00 20.6	
ATOM 1409 CB ALA A 317 33.859 21.314 42.294 1.00 20.68 C										
ATOM 1407 CA ALA A 317 35.057 21.445 41.406 1.00 20.76 C ATOM 1409 CB ALA A 317 33.859 21.314 42.294 1.00 20.68 C ATOM 1409 CB ALA A 317 35.057 21.445 41.406 1.00 20.76 C						36.248	3 20.882			
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ATOM 1386 CD GLU A 315						40.261	22.070			=
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ATOM 1291 CG GLU A 310								51 650	1 00 19 25	Č
ATOM 1291 CB GLU A 310 34.4990 15.776 51.659 1.00 19.25 C C ATOM 1297 CD GLU A 310 34.449 14.367 51.869 1.00 21.65 C C ATOM 1297 CD GLU A 310 33.488 14.236 52.957 1.00 21.65 C C ATOM 1299 ORE GLU A 310 32.837 15.275 53.350 1.00 23.37 O C ATOM 1299 ORE GLU A 310 36.289 17.244 50.070 1.00 19.22 O ATOM 1209 ORE GLU A 310 36.289 17.244 50.070 1.00 19.22 O ATOM 1301 C G LU A 310 36.289 17.244 50.070 1.00 19.19 C ATOM 1301 O GLU A 310 35.742 17.808 49.125 1.00 20.59 O ATOM 1302 N ILE A 311 37.238 17.825 50.790 1.00 18.33 N ATOM 1306 CB ILE A 311 37.238 17.825 50.790 1.00 18.33 N ATOM 1306 CB ILE A 311 37.591 19.669 19.178 50.504 1.00 17.23 C ATOM 1306 CB ILE A 311 38.582 19.669 51.637 1.00 16.82 C ATOM 1311 CDI ILE A 311 38.615 19.946 54.200 1.00 16.40 C ATOM 1315 CGZ ILE A 311 39.139 21.050 51.00 16.40 C ATOM 1315 CGZ ILE A 311 39.139 21.050 51.00 16.40 C ATOM 1315 CGZ ILE A 311 39.139 21.050 51.00 16.40 C ATOM 1320 O ILE A 311 38.418 19.219 49.130 1.00 16.40 C ATOM 1320 O ILE A 311 38.418 19.219 49.130 1.00 16.40 C ATOM 1320 O ILE A 311 38.418 19.219 49.130 1.00 16.40 C ATOM 1320 O ILE A 311 38.418 19.219 49.130 1.00 16.40 C ATOM 1320 O ILE A 311 38.418 19.219 49.130 1.00 16.06 N ATOM 1322 N MET A 312 38.448 18.106 48.248 20.156 48.231 1.00 19.96 C ATOM 1325 CB MET A 312 40.891 18.106 48.231 1.00 19.96 C ATOM 1325 CB MET A 312 40.891 18.692 48.231 1.00 19.96 C ATOM 1325 CB MET A 312 40.891 18.692 48.231 1.00 19.96 C ATOM 1325 CB MET A 312 38.481 18.692 48.231 1.00 19.96 C ATOM 1326 CB MET A 313 38.516 18.692 48.231 1.00 19.96 C ATOM 1326 CB MET A 312 38.854 18.099 48.595 1.00 17.57 C ATOM 1326 CB MET A 313 36.001 13.994 46.595 1.00 17.97 C ATOM 1326 CB MET A 312 38.854 18.099 48.231 1.00 19.96 C ATOM 1326 CB MET A 312 38.854 18.099 48.231 1.00 19.96 C ATOM 1326 CB MET A 312 38.854 18.099 48.231 1.00 19.96 C ATOM 1326 CB MET A 312 38.854 18.099 48.291 1.00 18.63 C ATOM 1336 CB MET A 312 38.854 18.099 48.291 1.00 18.63 C ATOM 1336 CB MET A 312 38.854 18.099 48.291 1.00 18.63 C ATOM 1337 C ATOM 1337 C ATOM 1338 C ATOM				3	210	25 021	15 003	50 440	1 00 19.49	С

ATOM	1415	N	ARG A	318		35.934	22 622	41 047	
ATOM	1417	CA	ARG F			36.313	23.623	41.947	1.00 22.02
ATOM	1419	CB	ARG A			37.094	25.033	41.796	1.00 22.80
ATOM	1422	CG	ARG I			36.573	25.465	43.038	1.00 23.87
ATOM	1425	CD	ARG A				26.602	43.856	1.00 27.49
ATOM	1428	NE	ARG F			37.322	26.668	45.163	1.00 33.60
ATOM	1430	CZ				37.035	27.843	45.987	1.00 39.43
ATOM	1431		ARG A			37.516	29.056	45.772	
		NH1				38.325	29.293	44.736	1.00 44.52
ATOM ATOM	1434		ARG A			37.180	30.043	46.599	1.00 43.04
	1437	C	ARG A			37.230	25.307	40.615	1.00 21.79
ATOM	1438	0	ARG A			37.245	26.411	40.086	1.00 21.76
ATOM	1439	N	ARG A			38.044	24.317	40.259	1.00 20.98
ATOM	1441	CA	ARG A			39.023	24.421	39.171	1.00 20.20
ATOM	1443	CB	ARG A			40.313	23.710	39.568	1.00 20.14
ATOM	1446	CG	ARG A			41.082	24.401	40.647	1.00 20.81
ATOM	1449	CD	ARG A			42.014	23.486	41.412	1.00 23.29
ATOM	1452	NE	ARG A			42.885	24.247	42.294	1.00 24.81
MOTA	1454	CZ	ARG A			42.504	24.799	43.426	1.00 26.82
MOTA	1455		ARG A			41.265	24.659	43.852	1.00 28.73
ATOM	1458		ARG A			43.371	25.490	44.155	1.00 29.94
ATOM .	1461	С	ARG A	319		38.538	23.826	37.850	1.00 19.77
ATOM	1462	0	ARG A	319		39.312	23.733	36.881	1.00 18.83
MOTA	1463	N	TYR A	320		37.283	23.387	37.835	1.00 19.44
ATOM	1465	CA	TYR A	320		36.613	22.945	36.616	1.00 19.71
MOTA	1467	CB	TYR A	320		35.365	22.116	36.956	1.00 19.39
MOTA	1470	CG	TYR A	320		34.596	21.588	35.769	1.00 18.73
ATOM	1471	CD1	TYR A	320		35.123	20.608	34.962	1.00 19.98
MOTA	1473	CE1				34.416	20.112	33.868	1.00 20.60
ATOM	1475	CZ	TYR A			33.167	20.603	33.575	1.00 20.46
MOTA	1476	ОН	TYR A			32.486	20.107	32.487	1.00 20.46
ATOM	1478	CE2	TYR A			32.611	21.578	34.370	1.00 19.65
ATOM	1480	CD2	TYR A			33.328	22.063	35.463	1.00 19.85
ATOM	1482	С	TYR A			36.239	24.163	35.769	1.00 20.30
ATOM	1483	0	TYR A			35.657	25.127	36.254	1.00 20.30
ATOM	1484	Ν.	ASN A			36.613	24.115	34.501	1.00 21.61
ATOM .	1486	CA	ASN A			36.217	25.110	33.536	1.00 22.66
ATOM	1488	СВ	ASN A			37.409	25.484	32.663	1.00 22.00
ATOM	1491	CG	ASN A			37.143	26.698	31.800	1.00 23.12
ATOM	1492	OD1	ASN A			37.647	27.782	32.069	1.00 22.84
ATOM	1493		ASN A			36.348	26.524	30.771	
ATOM	1496	С	ASN A		•	35.096	24.525	32.697	1.00 20.92 1.00 23.60
ATOM	1497	0	ASN A			35.313	23.608	31.918	
ATOM	1498	N	HIS A			33.895	25.053	32.892	
ATOM	1500	CA	HIS A			32.693	24.646	32.156	1.00 25.23
ATOM	1502	CB	HIS A			31.492	25.513		1.00 26.51
ATOM	1505	CG	HIS A			30.275	25.424	32.633 31.762	1.00 27.27
MOTA	1506		HIS A			29.601	24.240		1.00 29.99
ATOM	1508		HIS A			28.586	24.240	31.535	1.00 32.54
ATOM	1510		HIS A			28.571	25.750	30.713	1.00 34.07
ATOM	1512		HIS A			29.611		30.404	1.00 34.11
ATOM	1514	C	HIS A			32.891	26.376	31.058	1.00 33.10
ATOM	1515	ō	HIS A			32.418	24.711	30.633	1.00 26.52
ATOM	1516	N	GLU A			33.617	23.833	29.900	1.00 26.62
ATOM	1518	CA	GLU A			33.748	25.722	30.158	1.00 26.77
ATOM	1520	CB	GLU A				25.980	28.712	1.00 26.91
ATOM	1523	CG	GLU A			34.133	27.448	28.469	1.00 27.10
ATOM	1526	CD	GLU A			33.148	28.221	27.591	1.00 28.96
ATOM	1527	OE1	GLU A			32.215	29.128	28.383	1.00 30.50
ATOM	1528		GLU A			32.234	29.079	29.638	1.00 30.87
ATOM	1529	C	GLU A			31.461	29.899	27.740	1.00 30.74
ATOM	1530	0	GLU A			34.735	25.057	27.963	1.00 26.84
	_000	<u> </u>	GHO W	323		34.592	24.847	26.761	1.00 26.37

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ATOM	1531	N	THR A	324	35.739	24.534	28.670	1.00 26.82	N
ATOM	1533	CA	THR A	324	36.721	23.609	28.099	1.00 26.57	С
ATOM	1535	CB	THR A		38.190	24.074	28.416	1.00 26.67	С
ATOM	1537		THR A		38.467	24.031	29.833	1.00 25.10	0
ATOM	1539	-	THR A		38.416	25.538	28.015	1.00 26.34	С
ATOM	1543	C	THR A		36.507	22.164	28.583	1.00 26.77	· C
ATOM	1544	Õ	THR A		37.143	21.254	28.075	1.00 26.83	Ō
ATOM	1545	N	GLU A		35.598	21.962	29.538	1.00 26.97	Ŋ
		CA	GLU A		35.375	20.663	30.204	1.00 27.23	Ċ
ATOM	1547				34.689	19.675	29.234	1.00 27.23	č
MOTA	1549	CB	GLU A				29.587		C
MOTA	1552	CG	GLU A		33.233	19.344		1.00 28.20 1.00 29.54	
MOTA	1555	CD	GLU A		32.398	18.812	28.408		C
MOTA	1556	OE1	GLU A		32.727	19.079	27.222	1.00 29.64	0
ATOM	1557		GLU A		31.383	18.126	28.668	1.00 29.96	0
MOTA	1558	С	GLU A		36.669	20.077	30.829	1.00 27.23	C
MOTA	1559	0	GLU A		36.837	18.854	30.934	1.00 27.55	0
ATOM	1560	N	CYS A		37.563	20.971	31.256	1.00 26.85	N
MOTA	1562	CA	CYS A	326	38.877	20.606	31.795	1.00 26.31	С
ATOM	1564	CB	CYS A	326	39.991	21.098	30.864	1.00 26.31	C
MOTA	1567	SG	CYS A	326	40.201	20.150	29.337	1.00 27.85	S
ATOM	1568	С	CYS A		39.095	21.213	33.180	1.00 25.45	С
ATOM	1569	ō	CYS A		38.497	22.234	33.523	1.00 25.10	0
ATOM	1570	N	ILE A		39.979	20.577	33.947	1.00 24.73	N
ATOM	1572	CA	ILE A		40.265	20.934	35.332	1.00 24.35	С
ATOM	1574	CB	ILE A		40.046	19.699	36.227	1.00 24.35	Ċ
ATOM	1576	CG1	ILE A		38.560	19.368	36.321	1.00 24.03	Ċ
	1579	CD1	ILE A		38.310	18.010	36.913	1.00 25.32	Č
MOTA					40.634	19.908	37.604	1.00 23.73	č
ATOM	1583	CG2	ILE A		41.711	21.398	35.429	1.00 24.23	č
ATOM	1587	C			42.596	20.722	34.925	1.00 23.23	Ö
ATOM	1588	0	ILE A				36.108	1.00 23.37	N
ATOM	1589	N	THR A		41.945	22.521		1.00 24.33	C
MOTA	1591	CA	THR A		43.262	23.135	36.176		c
MOTA	1593	CB	THR A		43.221	24.573	35.612	1.00 24.72	O
ATOM	1595	OG1	THR A		42.759	24.549	34.254	1.00 24.62	
MOTA	1597	CG2			44.638	25.177	35.492	1.00 24.73	C
MOTA	1601	С	THR A		43.827	23.146	37.601	1.00 25.13	C
MOTA	1602	0	THR F		43.288	23.805	38.511	1.00 24.81	0
ATOM	1603	N	PHE P		44.932	22.421	37.773	1.00 25.28	N
MOTA	1605	CA	PHE A		45.690	22.429	39.013	1.00 25.63	C
MOTA	1607	CB	PHE P		46.168	21.003	39.303	1.00 25.28	C
MOTA	1610	CG	PHE A	A 329	45.058	19.981	39.249	1.00 23.41	С
ATOM	1611	CD1	PHE A	A 329	45.075	18.960	38.309	1.00 21.30	С
MOTA	1613	CE1	PHE A	A 329	44.050	18.042	38.242	1.00 20.33	C
ATOM	1615	CZ	PHE A	A 329	42.978	18.125	39.127	1.00 20.10	C
ATOM	1617	CE2	PHE A	A 329	42.943	19.139	40.075	1.00 21.64	C
ATOM	1619		PHE A		43.976	20.068	40.128	1.00 21.59	C
ATOM	1621	C		A 329	46.859	23.413	38.923	1.00 27.08	C
ATOM	1622	Ö		A 329	47.514	23.529	37.879	1.00 27.03	0
ATOM	1623	N		A 330	47.086	24.162	39.999	1.00 28.88	N
MOTA	1625	CA		A 330	48.317	24.959	40.168	1.00 30.33	C
ATOM	1627	CB		A 330	49.543	24.024	40.284	1.00 30.46	C
	1630	CG		A 330	49.540	22.997	41.419	1.00 30.49	Ċ
ATOM			L LEU A		50.613	21.962	41.199	1.00 31.98	c
MOTA	1632				49.751	23.668	42.752	1.00 30.65	č
ATOM	1636		LEU A		48.575	25.998	39.062	1.00 30.03	C
ATOM	1640	C		A 330			38.556		Ö
ATOM	1641	0		A 330	49.695	26.113			Ŋ
ATOM	1642	N		A 331	47.547	26.748	38.682	1.00 32.74	2
ATOM	1644	CA		A 331	47.668	27.785	37.632		C
ATOM	1646			A 331	48.877	28.735	37.855		C
MOTA	1649			A 331	49.110	29.269	39.284		C
MOTA	1652	CD	LYS .	A 331	49.871	30.635	39.289	1.00 37.37	С
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ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	1655 1658 1662 1663 1664 1666 1668 1671	CE NZ C O N CA CB CG	LYS A LYS A LYS A ASP A ASP A ASP A ASP A ASP A	331 331 331 332 332 332 332 332 332	49.066 49.126 47.805 47.389 48.401 49.005 50.527 51.040 50.978	31.744 33.069 27.247 27.907 26.070 25.697 25.843 27.045 27.038	40.025 39.324 36.211 35.269 36.047 34.772 34.872 34.125 32.876	1.00 38.72 1.00 38.94 1.00 33.94 1.00 34.65 1.00 34.28 1.00 34.16 1.00 34.39 1.00 34.51	
ATOM ATOM ATOM ATOM ATOM	1673 1674 1675 1676	C O N	ASP A ASP A ASP A PHE A	332 332 333	51.504 48.700 48.561 48.677	28.047 24.301 24.108 23.323	34.708 34.268 33.060 35.166	1.00 35.55 1.00 33.94 1.00 34.65 1.00 33.39	
ATOM ATOM ATOM	1678 1680 1683 1684	CA CB CG	PHE A PHE A PHE A	333 333	48.485 49.024 50.520	21.929 20.986 21.059	34.775 35.863 36.031	1.00 32.85 1.00 32.98 1.00 33.52	
ATOM ATOM ATOM	1686 1688 1690	CE1	PHE A PHE A PHE A	333 333	51.087 52.471 53.286 52.735	21.780 21.862 21.229 20.521	37.072 37.213 36.318 35.261	1.00 33.91, 1.00 33.43 1.00 33.89 1.00 34.47	
ATOM ATOM	1692 1694 1695	CD2 C O	PHE A PHE A	333 333 333	51.358 47.022 46.222	20.440 21.665 21.708	35.121 34.501 35.410	1.00 34.19 1.00 31.92 1.00 31.94	
ATOM ATOM ATOM ATOM	1696 1698 1700 1702	N CA CB	THR A THR A THR A THR A	334 334	46.688 45.300 45.014	21.383 21.254 22.318	33.245 32.796 31.727	1.00 31.20 1.00 30.75 1.00 30.62	
ATOM ATOM ATOM	1704 1708 1709	CG2 C	THR A THR A THR A	334 334	45.207 43.545 45.023 45.861	23.613 22.322 19.864 19.304	32.303 31.316 32.242 31.551	1.00 30.79 1.00 30.43 1.00 30.23 1.00 30.23	
ATOM ATOM	1710 1712 1714	N CA CB	TYR A TYR A TYR A	335 335 335	43.842 43.501 43.867	19.320 17.931 16.986	32.544 32.205 33.366	1.00 30.23 1.00 29.92 1.00 29.62 1.00 29.47	
ATOM ATOM ATOM ATOM	1717 1718 1720 1722	CG CD1 CE1 CZ		335 335	45.325 45.737 47.079	17.092 17.850 17.973	33.729 34.823 35.134	1.00 29.58 1.00 29.29 1.00 29.82	•
ATOM ATOM ATOM	1723 1725 1727	OH CE2	TYR A	335 335	48.024 49.358 47.640 46.302	17.362 17.476 16.635 16.508	34.325 34.607 33.219 32.922	1.00 29.99 1.00 31.94 1.00 29.71 1.00 29.36	
ATOM ATOM ATOM	1729 1730 1731	C O N	TYR A TYR A SER A	335 335 336	42.030 41.177 41.745	17.762 18.458 16.813	31.864 32.405 30.976	1.00 29.38 1.00 29.15 1.00 29.15	
ATOM ATOM ATOM ATOM	1733 1735 1738 1740	CA CB OG C	SER A SER A	336 336	41.107	16.524 16.527 15.491	30.541 29.021 28.485	1.00 28.85 1.00 28.49 1.00 27.98	
ATOM ATOM ATOM	1741 1742 1744	O N CA	SER A SER A LYS A	336 337	39.981 40.824 38.695 38.168	15.163 14.420 14.839 13.519	31.063 31.552 30.934 31.298	1.00 28.83 1.00 28.78 1.00 28.88	
ATOM ATOM ATOM	1746 1749 1752	CB CG CD	LYS A : LYS A :	337 337 337	36.742 35.739 34.407	13.336 12.823 12.361	30.764 31.796 31.151	1.00 28.86 1.00 28.93 1.00 30.85 1.00 32.64	
ATOM ATOM ATOM ATOM	1755 1758 1762	CE NZ C	LYS A : LYS A :	337 337	33.456 32.125 39.053	13.529 13.458 12.385	30.806 31.537 30.776	1.00 33.98 1.00 35.47 1.00 28.68	
ATOM ATOM ATOM	1763 1764 1766 1768	O N CA CB	LYS A : ASP A : ASP A :	338 338	39.286 39.537 40.370 40.661	11.404 12.524 11.496	31.492 29.536 28.921	1.00 28.62 1.00 28.16 1.00 27.94	
ATOM	1771	CG	ASP A		39.498	11.800 11.428	27.435 26.502	1.00 28.12 1.00 28.23	

	7.0004	1770	OD1	7 O D 7	220		20 407	11 060	06 000	1 00 00 01		_
	ATOM ATOM	1772 1773		ASP A ASP A			38.407 39.585	11.062 11.489	26.993 25.256	1.00 28.81 1.00 27.66		0
	ATOM	1774		ASP A			41.679	11.469	29.690	1.00 27.53		0
	ATOM	1775		ASP A			42.093	10.237	30.009	1.00 27.33		Ö
•	ATOM	1776		ASP A			42.324	12.478	29.990	1.00 26.98		N
	ATOM	1778		ASP A			43.580	12.449	30.743	1.00 26.51		C
	ATOM	1780		ASP A			44.098	13.864	31.040	1.00 26.35		č
	ATOM	1783		ASP A			44.531	14.617	29.784	1.00 26.67		Č
	ATOM	1784		ASP A			45.108	14.010	28.844	1.00 27.93		ŏ
	ATOM	1785		ASP A		•	44.339	15.837	29.650	1.00 26.18		ŏ
	ATOM	1786		ASP A			43.463	11.634	32.040	1.00 26.10		č
	MOTA	1787		ASP F			44.391	10.906	32.392	1.00 26.08		ŏ
	ATOM	1788	N	PHE F			42.328	11.725	32.732	1.00 25.51		N
	ATOM	1790	CA	PHE A			42.149	10.965	33.964	1.00 25.32		С
	MOTA	1792	CB	PHE A	340		40.967	11.492	34.795	1.00 24.90		C
	ATOM	1795	CG	PHE A			41.175	12.888	35.305	1.00 22.96		С
	MOTA	1796	CD1	PHE A	340		40.553	13.966	34.697	1.00 22.02		С
	ATOM	1798	CE1	PHE A			40.758	15.257	35.153	1.00 22.03		С
	MOTA	1800	CZ	PHE A			41.598	15.487	36.229	1.00 20.58		С
	MOTA	1802		PHE A			42.226	14.421	36.839	1.00 20.74		С
	MOTA	1804	CD2	PHE A			42.016	13.128	36.371	1.00 21.10		C
	MOTA	1806	С		4 340		42.022	9.466	33.682	1.00 25.66		С
	ATOM	1807	0	PHE A			42.466	8.650	34.483	1.00 25.91		0
	MOTA	1808	N	HIS A			41.435	9.106	32.550	1.00 26.18		N
	ATOM	1810	CA	HIS A			41.343	7.700	32.148	1.00 26.87		C
	MOTA	1812	CB		A 341		40.295	7.513	31.045	1.00 27.05		C
	ATOM	1815	CG		A 341		39.884	6.085	30.849	1.00 28.71		C
	MOTA	1816		HIS A			39.126 38.922	5.394	31.771	1.00 29.94		N
	MOTA	1818 1820		HIS A			39.523	4.162 4.027	31.335 30.165	1.00 31.00 1.00 30.91		C N
	ATOM ATOM	1822		HIS A			40.134	5.215	29.838	1.00 30.45		C
	ATOM	1824	CDZ		A 341		42.684	7.113	31.685	1.00 26.76		č
	ATOM	1825	Õ		A 341		42.984	5.947	31.954	1.00 26.77		ŏ
	ATOM	1826	N		A 342		43.486	7.925	31.003	1.00 26.70		N
	ATOM	1828	CA		A 342		44.794	7.493	30.513	1.00 26.94		Ċ
	ATOM	1830	CB		A 342		45.382	8.543	29.558	1.00 26.90		Ċ
	ATOM	1833	CG		A 342		44.664	8.622	28.210	1.00 28.19		C
	ATOM	1836	CD	ARG .	A 342		45.229	9.672	27.226	1.00 29.91		С
	MOTA	1839	NE	ARG .	A 342		44.476	10.935	27.264	1.00 31.33		N
	ATOM	1841	CZ		A 342		44.632	11.955	26.412	1.00 31.59		С
	MOTA	1842			A 342		45.525	11.902	25.427	1.00 31.20		N
	MOTA	1845			A 342		43.886	13.049	26.554	1.00 31.62		N
	MOTA	1848	C		A 342		45.778	7.202	31.656	1.00 26.76		C
	MOTA	1849	0		A 342		46.798	6.566	31.423	1.00 26.70		0
	MOTA	1850	N		A 343		45.470	7.675	32.872	1.00 26.62 1.00 26.39		N
	ATOM	1852	CA CB		A 343 A 343		46.280 46.349	7.431 8.695	34.079 34.939	1.00 26.39		C
	ATOM ATOM	1854 1858	C		A 343		45.776	6.249	34.924	1.00 26.40		Ċ
	ATOM	1859	Ö		A 343		46.353	5.932	35.966	1.00 26.25		ŏ
	ATOM	1860	N		A 344		44.691	5.620	34.481	1.00 26.50		N
	ATOM	1862	CA		A 344		44.267	4.332	35.001	1.00 26.55		Ċ
	ATOM	1865	C		A 344		43.280	4.423		1.00 26.67		Ċ
	ATOM	1866	ō		A 344		43.183	3.504	36.951	1.00 27.06		Ō
	ATOM	1867	N		A 345		42.551	5.530	36.197	1.00 26.53		N
	MOTA	1869	CA		A 345		41.463	5.667	37.153	1.00 26.53		С
	MOTA	1871	CB	LEU	A 345		41.267	7.149	37.516	1.00 26.53		С
	MOTA	1874	CG		A 345		42.518	7.858	38.072	1.00 24.62		C
	MOTA	1876			A 345		42.305	9.352	38.144	1.00 24.46		C
	MOTA	1880			A 345		42.897	7.335	39.436	1.00 23.50	•	C
	MOTA	1884	С		A 345		40.181	5.026	36.586	1.00 26.63		C
	MOTA	1885	0	LEU	A 345		39.898	5.147	35.395	1.00 26.63		0

ATOM	1886		GLN F			39.454	4.294	37.434		26.91			N
ATOM.	1888		GLN A			38.105	3.792	37.127		26.83 27.27			C
MOTA	1890		GLN F GLN F			37.339 37.770	3.473 2.240	38.426 39.251		28.32			CC
MOTA	1893		GLN A			36.835	1.986	40.479		29.29		٠	C
MOTA	1896		GLN A			36.459	0.842	40.753		31.84		•	o
ATOM ATOM	1897		GLN A			36.460	3.046	41.182		27.17			N
ATOM	1898 1901		GLN A			37.288	4.867	36.416		26.31	•		C
ATOM	1901		GLN A			37.438	6.055	36.704		26.77			ö
ATOM	1902		VAL A			36.389	4.454	35.536		25.81			N
ATOM	1905		VAL A			35.368	5.358	34.976		25.38			c
ATOM	1907		VAL A			34.753	4.766	33.669		25.51			· Č
ATOM	1909		VAL A			33.790	5.742	32.998		25.31	•	•	Č
ATOM	1913		VAL A			35.874	4.396	32.704		25.57			Č
ATOM	1917		VAL			34.304	5.642	36.057		24.93			Č
ATOM	1918		VAL			33.792	6.757	36.161		23.88			ō
ATOM	1919		GLU Z			34.045	4.636	36.898		24.60		•	N
ATOM	1921		GLU 2			33.146	4.756	38.063		24.72	•		C
ATOM	1923	CB	GLU .			33.019	3.390	38.770		24.91			С
ATOM	1926	CG	GLU .			32.539	2.243	37.885		26.71			С
ATOM	1929	CD	GLU .			33.685	1.488	37.206	1.00	29.71			С
ATOM	1930	OE1	GLU .			33.582	1.233	35.991	1.00	31.00			0
MOTA	1931	OE2	GLU .	<b>A</b> 3	348	34.701	1.160	37.869	1.00	31.93			0
ATOM	. 1932	С	GLU .	A 3	348	33.583	5.808	39.107	1.00	23.86			С
MOTA	1933	0	GLU .	A 3	348	32.829	6.137	40.029		23.87			0
MOTA	1934	N	PHE			34.816	6.285	38.974		23.14			N
MOTA	1936	CA	PHE			35.403	7.307	39.840		22.80			С
ATOM	1938	CB	PHE			36.854	6.903	40.134		23.01	•		C
MOTA	1941	CG	PHE			37.583	7.793	41.085		22.39			C
MOTA	1942		PHE			37.088	8.050	42.350		22.17			C
ATOM	1944		PHE			37.780	8.853	43.218		20.60			C
ATOM ·	1946	CZ	PHE			39.013	9.375	42.856		21.91		•	С
MOTA	1948		PHE			39.533	9.127	41.614		22.28			C
ATOM	1950		PHE			38.818	8.336	40.726		23.79			C
MOTA	1952	C	PHE			35.371	8.639	39.116		22.30			0
MOTA	1953	0	PHE			34.953	9.628	39.669		21.90			
ATOM	1954	Ŋ	ILE			35.796	8.635	37.857		22.24			N C
ATOM	1956	ĊA	ILE			35.895	9.848 9.537	37.060 35.722		22.04 21.70			c
MOTA	1958	CB	ILE ILE			36.575	9.337	35.722		22.13	•		Č
ATOM	1960	CG1				38.079 38.756	8.515	34.775		21.47			č
ATOM ATOM	1963	CD1 CG2				36.332	10.663	34.718		21.28			C
	1967 1971	CGZ	ILE			34.558	10.505	36.782		22.33			Č
ATOM ATOM	1972	Ö	ILE			34.434	11.731	36.887		22.59			ŏ
ATOM	1973	N	ASN			33.572	9.732	36.358		22.84			N
ATOM	1975	CA	ASN			32.302	10.302	35.907		22.42			G
ATOM	1977	CB	ASN			31.433	9.243	35.211	1.00	22.60			C
ATOM	1980	CG	ASN			31.905	8.937	33.789		23.53			С
ATOM	1981		ASN			32.687	9.687	33.203		25.37			0
ATOM	1982		ASN			31.424	7.836	33.232	1.00	23.29			N
MOTA	1985	С	ASN			31.558	11.005	37.045	1.00	22.06			С
MOTA	1986	0	ASN			31.069	12.114	36.843	1.00	22.38			0
ATOM	1987	N	PRO			31.464	10.388	38.228		21.48			N
MOTA	1988	CA	PRO			30.887	11.074	39.397		20.83			С
ATOM	1990	CB	PRO			30.914	10.006	40.491		20.76			С
MOTA	1993	CG	PRO	A	352	30.930	8.732	39.765		21.63			, C
ATOM	1996	CD	PRO			31.813	8.990	38.550		21.39			C
MOTA	1999	С	PRO			31.645	12.322	39.856		20.50			C
MOTA	2000	0	PRO			30.977	13.206	40.375		19.87			0
MOTA	2001	N			353	32.966	12.412	39.672		19.96			И
MOTA	2003	CA	ILE	A	353	33.689	13.627	40.076	T.00	19.92			С

MOTA	2005	CB	ILE	Α	353		35.236	13.428	40.135	1 00	19.61		_
ATOM	2007	CG1					35.686	12.406	41.190		20.31		C
ATOM	2010	CD1	ILE				34.657	11.997	42.210		22.76		C
ATOM	2014		ILE				35.906	14.762	40.367		19.04		
ATOM	2018	С	ILE				33.379	14.758	39.099		19.71		C
MOTA	2019	0	ILE				33.261	15.903	39.505		19.66		
ATOM	2020	N	PHE				33.280	14.435	37.812				0
ATOM	2022	CA	PHE				32.886	15.431	36.785		19.64		N
ATOM	2024	CB	PHE				33.175	14.938	35.370		19.92		C
MOTA	2027	CG	PHE				34.513	15.328			19.71		C
ATOM	2028		PHE				35.625	14.553	34.876 35.182		20.80		C
ATOM	2030		PHE				36.896	14.919			23.54		C
ATOM	2032	CZ	PHE				37.056	16.066	34.739 33.983		24.39		С
ATOM	2034		PHE				35.946	16.849			24.23		C
ATOM	2036		PHE				34.685	16.477	33.685		23.89		C
ATOM	2038	C	PHE				31.424	15.884	34.140		22.42		C
ATOM	2039	ŏ	PHE				31.126		36.877		19.67		C
ATOM	2040	N	GLU				30.541	17.052	36.613		19.35		0
ATOM	2042	CA	GLU				29.141	14.976	37.286		19.54		N
ATOM	2044	CB	GLU				28.337	15.314	37.550		19.97		C
ATOM	2047	CG	GLU				27.688	14.053 13.441			20.00		C
ATOM	2050	CD	GLU				27.848	11.929	36.635		22.53		C
ATOM	2051		GLU				27.853		36.543		26.22		C
ATOM	2052		GLU				27.033	11.411	35.386		26.82		0
ATOM	2053	C	GLU				29.036	11.267 16.284	37.610		27.50		0
ATOM	2054	ŏ	GLU				28.311	17.264	38.734		19.93		C
ATOM	2055	N	PHE				29.794	16.011	38.684		19.80		0
ATOM	2057	CA			356		29.799		39.785		19.56		N
ATOM	2059	CB			356		30.591	16.853 16.167	40.966		19.66		C
ATOM	2062	CG	PHE				30.659	16.955	42.081		19.44		C
ATOM	2063		PHE				29.577	16.933	43.348		20.91		C
ATOM	2065		PHE				29.647		44.223		20.43		C
ATOM	2067	CZ	PHE				30.809	17.694 18.396	45.404		19.47		C
ATOM	2069		PHE				31.881	18.384	45.720		18.74		C
ATOM	2071		PHE				31.811	17.672	44.855		19.01		C
ATOM	2073	C	PHE				30.373	18.223	43.678		19.31		C
ATOM	2074	ŏ			356		29.825	19.225	40.625		19.40		C
ATOM	2075	N	SER				31.457	18.249	40.990		18.28		0
ATOM	2077	CA	SER				32.128	19.499	39.870 39.503		20.60		N
ATOM	2079	CB	SER				33.338	19.227	38.602		20.59		C
ATOM	2082	OG	SER				34.369	18.580	39.329		20.29		C
ATOM	2084	c	SER				31.194	20.445			20.02		0
ATOM	2085	ŏ	SER				31.099	21.606	38.806 39.160				C
ATOM	2086	N	ARG				30.488	19.958	37.815		21.92 21.00		0
ATOM	2088	CA	ARG				29.605	20.841	37.041				N
ATOM	2090	CB	ARG				29.238	20.203	35.708		21.25		C
ATOM	2093	CG	ARG				28.561	18.881	35.802		22.25		C
ATOM	2096	CD	ARG				28.071	18.403	34.441		23.15		C
ATOM	2099	NE	ARG				29.192	17.895	33.667		23.15		C
MOTA	2101	CZ	ARG				29.508	16.607	33.533		26.50		N
ATOM	2102	NH1					28.770	15.650	34.106		26.64		C
ATOM	2105		ARG				30.558	16.272	32.783		28.29		N N
ATOM	2108	С	ARG				28.361	21.285	37.816		21.19		N
ATOM	2109	Ö	ARG				27.888	22.421	37.655		20.90		C
ATOM	2110	Ň	ALA				27.845	20.399	38.664		21.30		O N
MOTA	2112	CA	ALA				26.770	20.738	39.595		21.30		N
ATOM	2114	CB	ALA				26.329	19.479	40.375		21.67		C
ATOM	2118	C	ALA				27.213	21.831	40.576				C
ATOM	2119	ŏ	ALA				26.457	22.711	40.576		22.18 21.77	-	C
ATOM	2120	N	MET				28.457	21.767	41.001		23.01		0
ATOM	2122	CA	MET			•	29.009	22.748	41.919		24.64		N C
<del></del>				- <u>-</u>						2.00	24.04		

ATOM	2124	CB	MET .	A 360		30.361	22.254	42.446	1.00 24.59	
MOTA	2127	CG		A 360		30.641	22.625	43.881	1.00 24.39	
MOTA	2130	SD	MET .	A 360		29.338	22.222	45.065	1.00 27.33	
ATOM	2131	CE		A 360		29.857	20.934	45.508	1.00 20.30	
ATOM	2135	С		A 360		29.148	24.121	41.258		
ATOM	2136	.0		A 360		28.926		41.894	1.00 25.19	
ATOM	2137	N		A 361		29.480	24.126		1.00 25.74	
ATOM	2139	CA		A 361		29.584	25.371	39.972		
ATOM	2141	CB		A 361		30.249		39.224	1.00 26.35	
ATOM	2144	CG		A 361 ·				37.869	1.00 27.12	
ATOM	2147			A 361		31.701		37.971	1.00 29.89	
ATOM	2150	NE .		A 361		32.662	25.573	38.673	1.00 31.97	•
ATOM	2152	CZ	ARG	7 3 C T		33.039	26.712	37.829	1.00 33.46	
ATOM	2153		ARG A	A 361		33.860		38.219		
ATOM				A 361		34.416			1.00 36.21	
ATOM	2156		ARG I			34.127		37.390	1.00 37.44	
	2159	C.		A 361 ·		28.239	26.054	38.996	1.00 26.11	
MOTA	2160	0		A 361		28.179	27.284	38.839	1.00 26.26	
ATOM	2161	N	ARG A	A 362		27.159			1.00 25.48	
ATOM	2163	CA	ARG A	A 362		25.834	25.863 24.804	38.729	1.00 25.07	
ATOM	2165	CB	ARG A	A 362		24.771			1.00 25.05	
ATOM	2168	CG		A 362		24.727			1.00 26.61	
MOTA	2171	CD	ARG A	A 362 A 362		23.614	23.522		1.00 30.55	
MOTA	2174	NE	ARG A	A 362		24.090		36.484	1.00 33.30	
ATOM	2176	CZ	ARG 2	A 362		23.737	21.173	37.352	1.00 33.74	
ATOM	2177	NH1	ARG A	A 362		22.882	21.411	38.352	1.00 34.38	
ATOM	2180			A 362		24.258	19.964	37.220	1.00 33.96	
MOTA	2183	С		A 362		25.467	26.641	39.971	1.00 24.29	
ATOM	2184	0	ARG A	A 362		24.923	27.726	39.888	1.00 24.82	
ATOM	2185	N	LEU A	A 363		25.813	26.093		1.00 24.09	
MOTA	2187	CA	LEU A	A 3,63		25.515	26.735		1.00 23.70	
ATOM	2189	CB		A 363		25.927			1.00 24.14	
ATOM	2192	CG	LEU A	A 363		24.872	25.174		1.00 25.78	
MOTA	2194°	CD1	LEU A	363		25.540	24.801		1.00 26.68	
ATOM	2198	CD2	LEU A	A 363		23.653			1.00 26.04	
MOTA	2202	С	LEU A	A 363		26.223			1.00 22.89	
MOTA	2203	0	LEU A	363		25.760	28.946		1.00 22.75	
ATOM	2204	N	GLY A	A 364		27.355	28.251		1.00 22.35	
ATOM	2206	CA		A 364		28.092	29.509		1.00 21.60	
MOTA	2209	С		A 364		28.424			1.00 20.93	
ATOM	2210	0	GLY A	364		28.151		43.573	1.00 20.48	
MOTA	2211	N		365	•	29.015	29.239		1.00 20.65	
ATOM	2213	CA	LEU A	365		29.409	29.712		1.00 20.77	
ATOM	2215	CB		A 365		29.970	28.563		1.00 20.89	
ATOM	2218	CG	LEU A	365		29.053	27.368		1.00 21.09	
MOTA	2220		LEU A			29.655	26.540	47.624	1.00 23.59	
ATOM	2224	CD2	LEU A	365		27.722	27.838	46.955	1.00 23.26	
ATOM	2228	С	LEU A			30.449	30.830	45.348	1.00 20.31	
MOTA	2229	0	LEU A			31.290	30.801	44.466	1.00 20.83	
ATOM	2230	N	ASP A			30.390	31.819	46.241	1.00 20.83	
ATOM	2232	CA	ASP A			31.450	32.813	46.304	1.00 19.34	
MOTA	2234	CB	ASP F			30.904	34.235	46.543	1.00 18.87	
ATOM	2237	CG	ASP F			30.328	34.442	47.922	1.00 18.87	
MOTA	2238		ASP F	366		30.648	33.664	48.849	1.00 19.79	
ATOM'	2239	OD2	ASP A	366		29.547	35.383	48.175	1.00 22.64	
ATOM	2240	C	ASP F			32.511	32.369		1.00 18.75	
ATOM	2241	ŏ	ASP F			32.373	31.318	47.311	1.00 18.05	
ATOM	2242	N	ASP F	367		33.577	33.145	47.902	1.00 17.47	
ATOM	2244	CA	ASP A	367		34.732	32.766	47.458	1.00 18.22	
ATOM	2246	СВ	ASP A			35.792		48.286	1.00 18.77	
MOTA	2249	CG	ASP F			36.570	33.879	48.276	1.00 19.56	
ATOM	2250		ASP A	367		36.252	33.986	46.950	1.00 21.86	
				. 507		JU. 2JZ	33.299	45.969	1.00 26.50	
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ATOM	2251	OD2	ASP	Α	367	37.556	34.750	46.808	1.00 29.0	าร	0
ATOM	2252	С	ASP	Α	367	34.328	32.482	49.740	1.00 18.5		o C
ATOM	2253	0	ASP			34.810	31.527	50.340	1.00 18.7		. 0
MOTA	2254	N	ALA			33.436	33.304	50.291	1.00 17.6		N
ATOM	2256	CA	ALA	Α	368	32.965	33.127	51.656	1.00 17.9		. C
ATOM	2258	CB	ALA	Α	368	32.127	34.347	52.106	1.00 17.8		c
MOTA	2262	С	ALA	Α	368	32.145	31.847	51.823	1.00 17.9		c
ATOM	2263	0	ALA	A	368	32.291	31.149	52.819	1.00 17.0		Ö
MOTA	2264	N	GLU	Α	369	31.273	31.572	50.848	1.00 17.9		N
ATOM	2266	CA	GLU	Α	369	30.428	30.393	50.849	1.00 17.8		Č
ATOM	2268	CB	GLU	Α	369	29.392	30.448	49.719	1.00 17.8		Č
MOTA	2271	CG	GLU	Α	369	28.197	31.315	50.072	1.00 17.8	-	č
MOTA	2274	CD			369	27.368	31.747	48.887	1.00 17.9		č
ATOM	2275	OE1				26.183	32.053	49.081	1.00 19.9		ŏ
ATOM	2276	OE2	GLU	Α	369	27.877	31.780	47.764	1.00 16.2		ŏ
ATOM	2277	С	GLU	Α	369	31.273	29.120	50.784	1.00 17.9		č
ATOM	2278	0			369	31.062	28.239	51.611	1.00 18.4		Ö
ATOM	2279	N	TYR	Α	370	32.237	29.043	49.860	1.00 17.0		N
MOTA	2281	CA			370	33.179	27.919	49.811	1.00 18.4		· C
ATOM	2283	CB			370	34.263	28.083	48.713	1.00 19.4		C
ATOM	2286	CG			370	33.924	27.365	47.453	1.00 23.3		c
MOTA	2287	CD1				33.476	28.072	46.322	1.00 30.9	57	C
ATOM	2289	CE1				33.109	27.405	45.129	1.00 31.4		Č
ATOM	2291	cz			370	33.183	26.031	45.089	1.00 30.4	15	C
ATOM	2292	ОН			370	32.856	25.383	43.933	1.00 34.5	50	0
ATOM	2294	CE2				33.619	25.317	46.197	1.00 29.6	51	С
ATOM	2296	CD2			370	34.001	25.994	47.374	1.00 25.5	53	С
ATOM	2298	C			370	33.898	27.711	51.121	1.00 18.0	)2	С
ATOM	2299	0			370	33.884	26,603	51.653	1.00 18.3		0
ATOM	2300	N			371	34.570	28.759	51.604	1.00 17.4	16	N
ATOM	2302	CA	ALA			35.332	28.705	52.860	1.00 17.		С
ATOM	2304	CB			371	35.915	30.075	53.187	1.00 17.3		С
MOTA	2308	С			371	34.483	28.192	54.030	1.00 17.8		С
ATOM	2309	0			371	34.867	27.264	54.744	1.00 17.6		0
ATOM	2310	N			372	33.300	28.770	54.184	1.00 18.3		N
MOTA	2312	CA			372	32.379	28.367	55.235	1.00 18.3		С
ATOM ATOM	2314 2317	CB CG			372	31.168	29.301	55.288	1.00 18.4		С
ATOM	2317	CD1			372 .	31.388	30.655	55.966	1.00 17.9	•	Ç
ATOM	2323		LEU			30.261 31.503	31.616	55.581	1.00 18.9		C
ATOM	2327	C			372	31.915	30.529	57.490	1.00 17.3		C
ATOM	2328	Ö			372	31.794	26.919 26.203	55.066	1.00 18.8		C
ATOM	2329	N			372	31.675	26.473	56.054	1.00 18.9		0
ATOM	2331	CA			373	31.293	25.074	53.839 53.601	1.00 19.3		N
ATOM	2333	CB			373	31.049	24.809	52.126	1.00 19.7		C
ATOM	2336	CG			373	29.782	24.100	51.665	1.00 19.3 1.00 21.2		C
ATOM	2338		LEU			30.074	23.402	50.324	1.00 21.2		C
ATOM	2342		LEU			29.130	23.141	52.650	1.00 22.4		C
ATOM	2346	C			373	32.383	24.129	54.043	1.00 20.3		C
ATOM	2347	ŏ			373	32.129	23.098	54.647	1.00 20.9		0
MOTA	2348	N			374	33.614	24.476	53.736	1.00 20.0		
ATOM	2350	CA			374	34.753	23.657	54.113	1.00 20.4		И С
ATOM	2352	СВ			374	36.018	24.226	53.480	1.00 20.		c
ATOM	2354	CG1				36.007	23.898	51.988	1.00 20.2		c
ATOM	2357		ILE			37.030	24.646	51.130	1.00 20.3		C
MOTA	2361		ILE			37.272	23.623	54.158	1.00 23.3		c
ATOM	2365	C			374	34.890	23.516	55.626	1.00 20.9		c
MOTA	2366	0			374	35.044	22.411	56.116	1.00 22.2		Ö
MOTA	2367	N	ALA			34.835	24.615	56.374	1.00 20.3		N
ATOM	2369	CA			375	34.859	24.573	57.829	1.00 19.2		C
MOTA	2371	СВ			375	34.780	25.972	58.370	1.00 19.0		č
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ATOM	2375	С	ALA	Δ	375	33.705	23.743	58.391	1 00	10 24			
									1.00	19.34			С
MOTA	2376	0	ALA			33.849	23.045	59.387	1.00	19.63			0
ATOM	2377	N	ILE	Α	376	32.540	23.828	57.767		19.42			N
MOTA	2379	CA	ILE	Α	376	31.390	23.066	58.227					
ATOM	2381		ILE							18.80			С
		CB				30.092	23.502	57.515	1.00	17.92	•		С
ATOM	2383	CG1	ILE			29.576	24.820	58.079	1.00	17.92 17.49 16.73 19.11 19.50 20.11 20.52 20.93			C
ATOM	2386	CD1	ILE	Α	376	28.585	25.567	57.139	1 00	16 72			Š
ATOM	2390								1.00	10.73		•	. C
			ILE			28.994	22.466	57.695	1.00	19.11			С
MOTA	2394	С	ILE	Α	376	31.683	21.603	57.971	1.00	19.50			Ċ
ATOM	2395	0	ILE	Α	376	31.306	20.773	58.774	1 00	20 11	·		ŏ
ATOM .	2396	N	ASN.	5	377	32.336		_	1.00	20.11			U
							21.294	56.847	1.00	20.52			Ν.
ATOM	2398	CA	ASN			32.680	19.915	56.469	1.00	20.93		•	. C
ATOM	2400	CB	ASN	Α	377	33.307	19.872	55.085	1.00	21.62			
ATOM	2403	CG	ASN			33.690	18.453	54.641					č
										22.72			C
ATOM	2404		ASN			32.979	17.837	53.867		22.99			. 0
ATOM	2405	ND2	ASN	$\mathbf{A}$	377	34.812	17.947	55.141	1.00	20.87			N
ATOM	2408	С	ASN	Α	377 ·	33.671	19.331						Ċ
ATOM	2409	Ō	ASN			33.517		57.433	1.00	21.11	• •		Č
							18.205	57.869	1.00	21.98	•		.0
ATOM	2410	N	ILE			34.672	20.121	57.783	1.00	21.41			N
ATOM	2412	CA	ILE	Α	378	35.681	19.716	58.758	1 00	21 93	,		
ATOM	2414	CB	ILE			36.697		E0 060	1 00	21.55		•	
							20.853	58.960	1.00	21.86			С
ATOM	2416	CGI	ILE			37.633	20.936	57.757	1.00	21.11 21.98 21.41 21.93 21.86 21.82 23.11 23.23 21.90 22.53 21.90 21.69 21.31 21.12 21.16 21.97 21.44			С
MOTA	2419	CD1	ILE	A	378	38.474	22.216	57.746	1.00	23.11			C
ATOM	2423	CG2	ILE			37.536	20.629	60.215	1 00	23.11			. ~
ATOM	2427							00.213	1.00	23.23	•		C
		C	ILE			35.086	19.287	60.094	1.00	21.90			С
ATOM	2428	0	ILE	Α	378	35.470	18.250	60.642	1.00	22.53			Ο
ATOM	2429	N	PHE	Α	379	34.168	20.086	60.630	1 00	21 90			N
ATOM	2431	CA	PHE			33.632		61 070	1.00	21.50			1/4
							19.825	61.970	1.00	21.69			С
ATOM	2433	CB	PHE			33.313	21.140	62.711	1.00	21.31			С
ATOM	2436	CG	PHE	A	379	34.536	21.991	62.992	1.00	21 12			C
ATOM	2437	CD1	PHE			34.639	23.276	62.499	1 00	21 16			č
ATOM .	2439							02.499	1.00	21.10			C
			PHE			35.771	24.028	62.745	1.00	21.97			С
ATOM	2441	$\mathbf{cz}$	PHE			36.806	23.504	63.484	1.00	21.44			C
ATOM	2443	CE2	PHE	Α	379	36.715	22.241	63.981	1 00	19.78			č
ATOM	2445		PHE										C
						35.587	21.490	63.733		21.14			С
ATOM	2447	С	PHE			32.398	18.934	61.907	1.00	21.30			С
ATOM	2448	0	PHE	Α	379	31.353	19.317	62.396		21.90			Ō
ATOM	2449	N	SER			32.517	17.758	61.310					.,
ATOM	2451									20.97			N
		CA	SER			31.407	16.796	61.282		21.44			С
ATOM	2453	CB	SER	Α	380	31.307	16.061	59.944	1.00	21.03	•		С
ATOM	2456	OG	SER	Α	380	31.393	16.992	58.889		23.07			Õ
ATOM	2458	С	SER			31.656	15.814						_
ATOM								62.382		21.42			Ċ
	2459	Ο.	SER			32.626	15.075	62.340	1.00	21.37			0
ATOM	2460	N	ALA	Α	381	30.781	15.804	63.376	1.00	22.21			N
ATOM	2462	CA	ALA	Α	381	31.019	15.021			22.72			Ĉ
MOTA	2464		ALA	7	201	30.066							
							15.461	65.667		23.12			С
MOTA	2468	С	ALA			30.879	13.518	64.339	1.00	23.30			С
MOTA	2469	0	ALA	A	381	31.284	12.728	65.200		24.29			0
ATOM	2470	N	ASP			30.309	13.117	63.195					
ATOM	2472	CA								23.11			N
			ASP			30.071	11.692	62.904	1.00	23.18			С
ATOM	2474	CB	ASP	Α	382	28.734	11.504	62.202	1.00	23.26	•		C
ATOM	2477	CG	ASP	Α	382	28.698	12.110	60.819		25.57			Č
ATOM .	2478		ASP			29.572	12.946						
ATOM		027	YOU T	7.7	202			60.478		24.08			0
	2479		ASP			27.781	11.837	60.010	1.00	29.55			0
ATOM	2480	С	ASP	A	382	31.180	10.986	62.111		23.20			C
ATOM	2481	0	ASP			30.988	9.859	61.646		23.89			
ATOM	2482	N	ARG										. 0
						32.347	11.628	61.974		22.57			N
ATOM	2484	CA	ARG			33.500	11.008	61.312	1.00	21.50			С
ATOM	2486	CB	ARG	Α	383	34.667	11.995	61.218	1.00	21.27			· č
ATOM	2489	CG	ARG			34.340	13.312	60.528					
ATOM	2492	CD								21.52			C
AION	47 J L	CD	ARG	А	202	33.831	13.113	<b>59.123</b> .	T.00	21.58			. C

ATOM	2495	NE	ARG	Δ	383	33.970	١	14.264	58.250	1 00	21.75		N
ATOM	2497	CZ	ARG			33.653		14.244	56.958		22.05		
ATOM	2498		ARG			33.204							C
								13.131	56.393		19.43		N
MOTA	2501		ARG			33.781		15.343	56.222		23.34		N
MOTA	2504	С	ARG			33.936		9.810	62.129		21.13		С
ATOM	2505	0	ARG	Α	383	33.719	9	9.770	63.334	1.00	21.47		0
MOTA	2506	N	PRO	Α	384	34.564	1	8.834	61.502	1.00	20.88		N
ATOM	2507	CA	PRO	Α	384	35.176	6	7.721	62.241	1.00	21.10		C
MOTA	2509	CB	PRO			35.890		6.914	61.146		21.32		č
ATOM	2512	CG	PRO			35.280		7.338	59.855		21.47		Č
ATOM	2515	CD	PRO			34.712		8.700					
									60.046		20.67		C
ATOM	2518	C	PRO			36.222		8.149	63.278		21.38		C
MOTA	2519	0	PRO			37.054		9.026	63.002		21.60		0
ATOM	2520	N	ASN			36.188		7.513	64.445	1.00	21.55		N
ATOM	2522	CA	ASN	A	385	37.226		7.665	65.488	1.00	21.22		C
ATOM	2524	CB	ASN	Α	385	38.619	9	7.375	64.905	1.00	21.33		С
ATOM	2527	CG	ASN	Α	385	38.708		5.977	64.310		20.84		C
ATOM	2528	OD1	ASN	Α	385	38.458	8	5.013	65.008		22.86		ō
ATOM	2529		ASN			39.01		5.867	63.026		17.53		N
ATOM	2532	C	ASN			37.23		8.991			20.97		
													C
ATOM	2533	0	ASN			38.190		9.282	66.922		20.77		0
MOTA	2534	N	VAL			36.158		9.774	66.177		20.83		N
MOTA	2536	CA	VAL			36.042		10.996	66.964		20.53		C
ATOM	2538	CB	VAL			35.02		11.967	66.340	1.00	20.29		С
MOTA	2540		VAL			34.75	5	13.131	67.264	1.00	20.90		С
ATOM	2544	CG2	VAL	Α	386	35.552	2	12.486	64.983	1.00	20.31		С
ATOM	2548	С	VAL	Α	386	35.673	3	10.695	68.430	1.00	20.67		С
ATOM	2549	0			386	34.73		9.950	68.720		20.08		Õ
ATOM	2550	N			387	36.41		11.309	69.344		20.66		Ň
ATOM	2552	CA			387	36.30		11.018	70.771		21.25		Ĉ
ATOM	2554	CB			387	37.66		11.084	71.458				Ċ
											21.61		C
ATOM	2557	CG			387	38.83		10.601	70.615		23.93		C
MOTA	2560	CD			387	39.59		9.483	71.255		25.34		С
ATOM	2561		GLN			38.99		8.517	71.705		29.43		0
MOTA	2562	NE2	GLN	A	387	40.92		9.598	71.292	1.00	27.17		N
MOTA	2565	С	GLN	Α	387	35.39	1	12.007	71.455	1.00	20.57	*	С
ATOM	2566	0	GLN	Α	387	34.74	5	11.659	72.413	1.00	20.97		0
ATOM	2567	N	GLU	Α	388	35.33	5	13.227	70.945	1.00	20.17		N
ATOM	2569	CA			388	34.56		14.301	71.551		20.02		C
MOTA	2571	СВ			388	35.52	6	15.372	72.037		20.38		č
MOTA	2574	CG			388	36.60		14.797	72.937		21.88		č
ATOM	2577	CD			388	37.23		15.860	73.794		24.28		C
ATOM	2578		GLU			37.23	-	16.680					
									73.239		27.15		0
MOTA	2579		GLU			36.97		15.885	75.008		25.68		0
ATOM	2580	C			388	33.59			70.532		19.21		С
ATOM	2581	0			388	33.71		16.011	70.126		18.78		0
MOTA	2582	N			389	32.63		14.056	70.107		19.33		N
MOTA	2583	CA	PRO	Α	389	31.69	1	14.477	69.063	1.00	19.55		С
MOTA	2585	CB	PRO	Α	389	30.83	6	13.208	68.812	1.00	20.13		С
MOTA	2588	CG	PRO	Α	389	30.99	2	12.348	70.066		19.37		C
ATOM	2591	CD			389	32.37		12.668	70.564		19.24		Ċ
ATOM	2594	C			389	30.83		15.675	69.482		19.37		č
MOTA	2595	ŏ			389	30.57		16.559	68.644		19.74		ŏ
MOTA	2596				390	30.42					19.74		
		N						15.718	70.742				N
MOTA	2598	CA			390	29.70		16.866	71.267		18.88		C
ATOM	2601	С			390	30.46		18.182	71.091		19.43		C
ATOM	2602	0			390	29.87		19.229	70.755		19.60		0
ATOM	2603	N			391	31.77		18.158	71.346		19.20		N
ATOM	2605	CA			391	32.60		19.344	71.106		19.79		С
MOTA	2607	CB			391	33.99		19.139	71.680	1.00	20.00		С
ATOM	_2610	CG_	_ARG	<u>A</u>	391	33.98	4	18.973	73.171	1.00	23.73		C
										<del></del>			

ATOM	2613	CD	ARG .	A	391		35.374	18.976	73.748	1.00 28.60	С
ATOM	2616	NE	ARG .	Α	391		36.026	20.260	73.495	1.00 31.62	N
ATOM		CZ	ARG				37.335	20.439	73.329	1.00 33.77	С
MOTA	2619		ARG .				38.191	19.412	73.360	1.00 33.29	N
ATOM	2622		ARG				37.788	21.673	73.139	1.00 34.43	N
ATOM	2625	С	ARG				32.737	19.725 ·	69.632	1.00 19.01	С
ATOM	2626	0	ARG				32.721	20.900	69.304	1.00 18.13	0
ATOM	2627	N	VAL				32.890	18.725	68.757	1.00 19.26	N
MOTA	2629	CA	VAL				33.046	18.963	67.328	1.00 19.48	С
ATOM	2631	CB	VAL				33.342	17.673	66.560	1.00 19.79	С
ATOM	2633		VAL				33.239	17.903	65.035	1.00 19.28	С
MOTA	2637		VAL				34.711	17.159	66.908	1.00 19.99	C
ATOM	2641	.C	VAL				31.777	19.603	66.769	1.00 19.62	
ATOM	2642	0	VAL				31.831	20.535	65.999	1.00 19.42	0
ATOM	2643	N	GLU				30.642	19.100	67.198	1.00 20.52	N C C
ATOM	2645	CA	GLU				29.347	19.608	66.793	1.00 21.87	C
ATOM	2647	CB	GLU				28.248	18.672	67.314	1.00 22.09	C
MOTA	2650	CG	GLU				26.863	19.094	66.918	1.00 25.31	C
MOTA	2653	CD	GLU				25.910	17.906		1.00 31.55	C.
ATOM	2654		GLU				25.791	17.278	65.761	1.00 35.01	Ċ
ATOM ·	2655	OE2					25.299	17.600	67.889	1.00 29.86	0
ATOM .	2656	C	GLU				29.106	21.018	67.326	1.00 21.32	C
ATOM	2657	0	GLU				28.547	21.851	66.618	1.00 21.71	0
ATOM ATOM	2658	N CA	ALA ALA				29.513 29.487	21.266 22.622	68.568 69.140	1.00 20.57	N
ATOM	2660 2662	CB	ALA				29.467	22.622	70.604	1.00 20.63 1.00 20.34	C
ATOM	2666	СБ	ALA				30.311	23.610	68.336	1.00 20.34	C
ATOM	2667	Ö	ALA				29.905	24.737	68.177	1.00 20.23	0
ATOM	2668	N	LEU				31.461	23.190	67.822	1.00 20.50	N
ATOM	2670	CA	LEU				32.321	24.064	66.995	1.00 20.42	C
ATOM	2672	CB	LEU				33.735	23.485	66.916	1.00 20.95	č
ATOM	2675	CG	LEU				34.556	23.430	68.201	1.00 21.40	Č
ATOM	2677		LEU				35.821	22.577	68.001	1.00 22.05	Č
ATOM	2681		LEU			•	34.909	24.806	68.674	1.00 22.08	С
ATOM	2685	С	LEU	Α	395		31.814	24.286	65.564	1.00 20.04	С
MOTA	2686	0	LEU	Α	395		32.072	25.331	64.962	1.00 20.55	0
ATOM	2687	N	GLN	Α	396		31.114	23.299	65.022	1.00 19.81	N
ATOM	2689	CA			396		30.460	23.425	63.726	1.00 19.89	С
ATOM	2691	CB			396		29.816	22.092	63.308	1.00 19.46	С
ATOM	2694	CG			396		29.349	22.087	61.880	1.00 20.05	C
MOTA	2697	CD			396		28.547	20.868	61.512	1.00 20.76	С
ATOM	2698		GLN				28.946	20.093	60.639	1.00 20.87	0
ATOM	2699	NE2					27.415	20.701	62.155	1.00 19.29	N
ATOM	2702	C			396		29.350	24.466	63.745	1.00 20.14	C
ATOM	2703	0			396		29.106	25.131	62.739	1.00 19.96	0
ATOM	2704 2706	N CA			397 397		28.666 27.486	24.573 25.435	64.883 65.013	1.00 20.08	N
ATOM ATOM	2708	CB			397		26.953	25.404	66.461	1.00 20.81 1.00 21.11	C
ATOM	2711	CG			397		25.829	26.375	66.731	1.00 21.11	c
MOTA	2714	CD			397		25.275	26.284	68.143	1.00 25.12	C
ATOM	2715		GLN				25.037	27.319	68.798	1.00 27.27	Ö
ATOM	2716	NE2			397		25.059	25.069	68.614	1.00 24.96	N
ATOM	2719	C			397		27.676	26.899	64.538	1.00 19.94	č
ATOM	2720	ō			397		26.883	27.373	63.738	1.00 20.40	ŏ
MOTA	2721	N			398		28.677	27.616	65.020	1.00 18.90	· N
ATOM	2722	CA			398		28.857	29.018	64.614	1.00 19.15	Ĉ
MOTA	2724	СВ			398		30.007	29.512	65.507	1.00 18.85	Č
ATOM	2727	CG			398		30.743	28.277	65.909	1.00 20.07	. C
MOTA	2730	CD	PRO	A	398		29.657	27.204	66.034	1.00 19.69	C
ATOM	2733	С			398		29.167	29.251	63.119	1.00 18.91	C
MOTA	2734	0	PRO	A	398		28.857	30.307	62.568	1.00 17.18	0

ATOM 2735 N TYR A 399 29.774 28.259 62.484 1.00 19.66 N ATOM 2737 CA TYR A 399 30.012 28.289 61.040 1.00 19.26 C ATOM 2742 CG TYR A 399 31.049 27.222 60.671 1.00 19.22 C ATOM 2742 CG TYR A 399 32.415 27.587 61.199 1.00 18.15 C ATOM 2743 CD1 TYR A 399 32.415 27.587 61.199 1.00 18.15 C ATOM 2745 CE1 TYR A 399 32.415 27.587 61.199 1.00 17.16 C ATOM 2747 CZ TYR A 399 34.165 27.340 62.790 1.00 17.16 C ATOM 2747 CZ TYR A 399 34.165 27.340 62.790 1.00 17.87 O ATOM 2747 CZ TYR A 399 34.165 27.340 62.616 1.00 17.87 O ATOM 2747 CZ TYR A 399 34.165 27.340 62.666 1.00 17.87 O ATOM 2750 CE2 TYR A 399 36.116 28.666 62.661 1.00 18.73 C ATOM 2750 CE2 TYR A 399 34.185 28.977 61.073 1.00 18.04 C ATOM 2755 CD2 TYR A 399 33.148 28.613 60.602 1.00 18.73 C ATOM 2755 CD2 TYR A 399 28.463 28.613 60.602 1.00 18.73 C ATOM 2755 O TYR A 399 28.463 28.613 60.602 1.00 18.73 C ATOM 2755 O TYR A 399 28.463 27.225 60.843 1.00 19.18 O ATOM 2756 O TYR A 399 28.463 27.225 60.843 1.00 19.18 O ATOM 2756 O TYR A 399 28.463 27.225 60.843 1.00 20.61 C ATOM 2756 CG CG VAL A 400 25.530 57.790 60.224 1.00 20.61 C ATOM 2766 CG2 VAL A 400 25.530 57.790 60.224 1.00 20.60 C ATOM 2776 C CG VAL A 400 25.530 57.790 60.390 1.00 22.13 C ATOM 2766 CG2 VAL A 400 25.570 28.279 60.390 1.00 22.13 C ATOM 2776 C GB UL A 400 25.570 28.279 60.390 1.00 22.13 C ATOM 2776 C GB UL A 401 25.580 50.170 61.801 61.801 60.22.13 C ATOM 2777 C C VAL A 400 25.570 28.279 60.390 1.00 22.94 C ATOM 2776 C GB UL A 401 25.562 28.885 61.565 1.00 23.94 C ATOM 2777 C C GLU A 401 25.592 50.866 65.796 1.00 22.13 C ATOM 2778 C GB UL A 401 25.593 50.170 61.801 61.801 61.00 21.54 C ATOM 2778 C GB UL A 401 25.593 50.866 65.796 1.00 21.595 C ATOM 2779 C G GLU A 401 25.952 50.866 65.796 1.00 21.595 C ATOM 2782 CD GLU A 401 24.995 30.666 65.796 1.00 21.595 C ATOM 2782 CD GLU A 401 24.995 30.666 65.796 1.00 21.595 C ATOM 2780 CD GLU A 401 24.995 30.666 65.796 1.00 21.595 C ATOM 2780 CD GLU A 401 24.995 30.666 65.796 1.00 21.595 C ATOM 2780 CD GLU A 401 24.995 30.666 65.796 1.00 21.595 C ATOM 2780 CD GL											
ATOM 2739 CB TYR A 3999 31.049 27.222 GC ATOM 2742 CG TYR A 3999 32.415 27.587 61.189 1.00 19.22 GC ATOM 2742 CG TYR A 399 32.415 27.587 61.189 1.00 18.15 CC ATOM 2743 CD1 TYR A 399 32.936 62.957 62.292 1.00 17.16 CC ATOM 2745 CE1 TYR A 399 34.165 27.340 62.790 1.00 17.16 CC ATOM 2747 CZ TYR A 399 34.165 27.340 62.790 1.00 18.03 CC ATOM 2748 OH TYR A 399 34.894 28.332 62.166 1.00 18.35 CC ATOM 2748 OH TYR A 399 36.116 28.686 62.661 1.00 17.16 CC ATOM 2748 OH TYR A 399 36.116 28.686 62.661 1.00 18.35 CC ATOM 2750 CE2 TYR A 399 34.388 28.977 61.073 1.00 18.04 CC ATOM 2752 CD2 TYR A 399 34.388 28.977 61.073 1.00 18.04 CC ATOM 2754 C TYR A 399 38.148 28.613 60.602 1.00 18.73 CC ATOM 2755 O TYR A 399 28.701 28.069 60.299 1.00 19.80 CC ATOM 2755 O TYR A 399 28.463 28.654 59.241 1.00 19.80 CC ATOM 2756 N VAL A 400 27.837 27.225 60.843 1.00 20.31 N ATOM 2756 CC TYR A 399 28.463 28.654 59.241 1.00 19.80 CC ATOM 2760 CB VAL A 400 25.830 25.790 60.824 1.00 21.06 C C ATOM 2760 CB VAL A 400 25.830 25.790 60.824 1.00 21.05 C C ATOM 2766 CG2 VAL A 400 25.830 25.790 60.824 1.00 21.05 C C ATOM 2760 CG VAL A 400 25.079 28.693 59.444 1.00 21.06 C C ATOM 2770 C VAL A 400 25.079 28.693 59.444 1.00 21.06 C C ATOM 2770 C VAL A 400 25.079 28.693 59.444 1.00 20.994 C C ATOM 2770 C VAL A 400 25.079 28.693 59.444 1.00 20.994 C C ATOM 2770 C VAL A 400 25.079 28.693 59.444 1.00 20.992 C C ATOM 2770 C GLU A 401 24.985 30.170 61.801 1.00 20.994 C C ATOM 2770 C GLU A 401 25.682 28.885 61.585 1.00 20.994 C C ATOM 2770 C GLU A 401 25.925 80.805 61.585 1.00 21.995 C C ATOM 2770 C GLU A 401 25.925 80.805 61.585 1.00 21.995 C C ATOM 2770 C GLU A 401 24.995 30.106 65.794 1.00 21.595 C C ATOM 2787 C G GLU A 401 24.995 30.106 65.794 1.00 21.595 C C ATOM 2780 C GLU A 401 24.975 30.866 65.794 1.00 21.595 C C ATOM 2780 C GLU A 401 24.975 30.866 65.794 1.00 21.595 C C ATOM 2785 C GLU A 401 24.475 29.824 61.801 1.00 21.595 C C ATOM 2780 C GLU A 401 24.475 29.824 61.801 1.00 21.595 C C ATOM 2789 C GLU A 401 24.476 29.837 66.795 1.00 21.595 N ATOM 2880 C GL	MOTA	2735	N	י סעית	300	20 774	20 250	60 404			
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ATOM 2743 CGL TYR A 399 32.415 27.587 61.189 1.00 18.15 C ATOM 2743 CDL TYR A 399 32.936 26.967 62.292 1.00 17.16 C C ATOM 2747 CZ TYR A 399 34.165 27.340 62.790 1.00 19.02 C ATOM 2747 CZ TYR A 399 34.165 27.340 62.790 1.00 19.02 C ATOM 2748 OH TYR A 399 34.166 27.340 62.790 1.00 19.02 C ATOM 2748 OH TYR A 399 34.166 27.06 62.166 1.00 18.35 C ATOM 2750 CEZ TYR A 399 34.388 28.977 61.073 1.00 18.04 C ATOM 2750 CEZ TYR A 399 34.388 28.977 61.073 1.00 18.04 C ATOM 2754 C TYR A 399 33.148 28.613 60.602 1.00 18.73 C ATOM 2755 O TYR A 399 33.148 28.613 60.602 1.00 18.73 C ATOM 2755 O TYR A 399 28.701 28.069 60.293 1.00 19.80 C ATOM 2755 O TYR A 399 28.701 28.069 60.293 1.00 19.980 C ATOM 2755 O TYR A 399 28.701 28.069 60.293 1.00 19.980 C ATOM 2756 N VAL A 400 27.837 27.225 60.843 1.00 20.31 N ATOM 2756 CA VAL A 400 25.830 25.790 60.824 1.00 20.60 C ATOM 2760 CE VAL A 400 25.830 25.790 60.824 1.00 21.52 C ATOM 2766 CG2 VAL A 400 25.830 25.790 60.824 1.00 21.52 C ATOM 2770 C VAL A 400 25.702 28.693 59.414 1.00 20.94 C ATOM 2771 O VAL A 400 25.702 28.693 59.414 1.00 20.99 4 C ATOM 2771 O VAL A 400 25.702 28.693 59.414 1.00 20.97 ATOM 2772 N GLU A 401 25.682 28.885 61.585 1.00 20.87 N ATOM 2776 CB GLU A 401 25.682 8885 61.585 1.00 20.87 N ATOM 2776 CB GLU A 401 25.682 8885 61.585 1.00 20.87 N ATOM 2778 CG GLU A 401 24.495 30.106 65.796 1.00 21.83 C ATOM 2778 CG GLU A 401 24.497 29.824 64.338 1.00 25.56 C ATOM 2783 CEL GLU A 401 25.495 30.170 61.810 1.00 21.54 C ATOM 2786 CD GLU A 401 24.497 29.824 64.338 1.00 25.56 C ATOM 2786 CD GLU A 401 24.497 29.824 66.573 1.00 21.83 C ATOM 2786 CD GLU A 401 24.497 29.824 66.387 1.00 20.95 T C ATOM 2786 CD GLU A 401 24.497 29.824 66.387 1.00 20.34 N C ATOM 2786 CD GLU A 401 24.497 29.824 66.387 1.00 20.34 N C ATOM 2786 CD GLU A 401 24.497 29.824 66.387 1.00 20.34 N C ATOM 2786 CD GLU A 401 24.497 29.824 66.387 1.00 20.39 C C ATOM 2787 CD GLU A 401 24.497 29.824 66.391 3.00 20.30 C C ATOM 2886 CD GLU A 401 25.493 30.202 60.316 1.00 20.34 N C ATOM 2886 CD GLU A 401 25.493 30.295 59.90		•									С
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ATOM 2766 CC2 VAL A 400	MOTA	2760	CB	VAL A	A 400	25.830	25.790				
ATOM 2766 CG2 VAL A 400	ATOM	2762	CG1	VAL A	A 400	24.389					
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ATOM 2784 OE2 GLU A 401							30.068	65.784	1.00 29.57		С
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ATOM 2853 CG TYR A 406 27.677 35.166 53.628 1.00 17.48 C ATOM 2854 CD1 TYR A 406 28.569 36.203 53.766 1.00 17.11 C											
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ATOM 2854 CDI TYR A 406 28.569 36.203 53.766 1.00 17.11 C											С
ATOM 2856 CEL TYR A 406 29.248 36.732 52.656 1.00 15.31 C								53.766			
	ATOM	_2856_	_CEl_	TYR	406	29.248	36.732	52.656	1.00 15.31		

ATOM	2858	CZ	TYR	A	406	29.050	36.154	51.417	1.00 14.9	97		С
MOTA	2859	ОН	TYR	A	406	29.700	36.603	50.291	1.00 12.8		•	ŏ
ATOM	2861	CE2	TYR			28.182	35.116	51.282	1.00 14.4	19	•	Č
MOTA	2863	CD2	TYR			27.509	34.625	52.377	1.00 15.9			С
ATOM	2865	C	TYR			24.624	35.120	53.829	1.00 20.6		•	$\mathbf{C}$
ATOM .	2866	0	TYR			24.381	36.074	53.095	1.00 19.5			0
ATOM	2867	N	THR			24.073	33.924	53.652	1.00 21.3		•	N
ATOM	2869	CA	THR			23.150	33.680	52.531	1.00 21.3			C
ATOM ATOM	2871 2873	CB OG1	THR			22.887 22.439	32.191	52.342	1.00 20.9			C
ATOM	2875	CG2	THR THR			24.193	31.609	53.558	1.00 19.3			0
MOTA	2879	C	THR			24.193	31.441 34.474	52.047 52.632	1.00 21.2			C
ATOM	2880	Ö	THR			21.327	34.862	51.619	1.00 22.2			C
ATOM	2881	N	ARG			21.359	34.748	53.840	1.00 21.7 1.00 24.0			0
ATOM	2883	CA	ARG			20.162	35.581	54.018	1.00 24.0			N C
ATOM	2885	CB	ARG			19.713	35.615	55.484	1.00 26.8			C
ATOM	2888	CG	ARG			18.703	34.539	55.906	1.00 31.0			C.
ATOM	2891	CD	ARG			18.843	34.084	57.386	1.00 36.			č
MOTA	2894	NE	ARG			17.578	34.128	58.139	1.00 40.			N
ATOM	2896	CZ	ARG			16.691	33.125	58.214	1.00 45.			c
MOTA	2897	NH1	ARG	Α	408	16.903	31.965	57.576	1.00 48.0	06		N
MOTA	2900	NH2	ARG			15.573	33.278	58.927	1.00 46.			N
ATOM	2903	С	ARG			20.412	37.026	53.568	1.00 26.3			С
ATOM	2904	0	ARG			19.545	37.660	52.972	1.00 25.	83		0
ATOM	2905	N			409	21.600	37.548	53.862	1.00 27.	14		N
ATOM	2907	CA			409	21.931	38.933	53.524	1.00 27.			С
ATOM	2909	CB			409	22.948	39.502	54.544	1.00 28.			C
MOTA	2911		ILE			22.378	39.380	55.969	1.00 28.			C
ATOM	2914		ILE			23.421	39.279	57.074	1.00 29.			С
ATOM	2918		ILE			23.287	40.965	54.207	1.00 27.			C
MOTA	2922	C			409	22.435	39.106	52.069	1.00 28.			C
ATOM ATOM	2923 2924	O N			409 410	22.057	40.064	51.386	1.00 27.		•	0
ATOM	2924	CA			410	23.261 23.895	38.167 38.251	51.608	1.00 29.			N
ATOM	2928	CB			410	25.247	37.506	50.302 50.311	1.00 30.1			C
ATOM	2931	CG			410	26.062	37.547	48.967	1.00 30.			C
ATOM	2934	CD			410	26.430	36.112	48.413	1.00 35.			C
ATOM	2937	CE			410	26.557	36.067	46.877	1.00 36.			Č
ATOM	2940	NZ			410	25.850	34.904	46.256	1.00 37.			N
ATOM	2944	C			410	22.970	37.748	49.193	1.00 30.			ĉ
ATOM	2945	0			410	23.070	38.214	48.058	1.00 30.			ŏ
MOTA	2946	N			411	22.051	36.833	49.509	1.00 30.			N
ATOM	2948	CA	ARG	A	411	21.067	36.362	48.517	1.00 31.			Ċ
ATOM	2950	СВ	ARG	Α	411	21.466	34.987	47.970	1.00 31.			C
MOTA	2953	CG	ARG	Α	411	22.694	34.988	47.043	1.00 35.			C
ATOM	2956	CD			411	23.101	33.573	46.543	1.00 40.			С
ATOM	2959	NE			411	23.290	33.462	45.081	1.00 42.	67		N
ATOM	2961	CZ			411	22.310	33.545	44.163	1.00 43.			С
MOTA	2962		ARG			21.040	33.758	44.521	1.00 43.			N
ATOM	2965		ARG			22.609	33.417	42.869	1.00 43.			N
ATOM	-2968	C			411	19.656	36.304	49.105	1.00 30.			C
ATOM	2969	0			411	19.099	35.236	49.317	1.00 29.			0
ATOM	2970	N C7			412	19.063	37.461	49.349	1.00 30.			N
ATOM ATOM	2971 2973	CA			412	17.830	37.526	50.136	1.00 30.			C
ATOM	2973 2976	CB CG			412	17.654	39.027	50.371	1.00 30.			C
ATOM	2979	CD			412 412	18.399 19.507	39.681 38.787	49.265	1.00 30.			C
MOTA	2982	CD			412	16.590	36.922	48.886	1.00 30.			C
ATOM	2983	Ö			412	15.656	36.514	49.444 50.154	1.00 31. 1.00 31.			C
ATOM	2984	N			413	16.586	36.855	48.109	1.00 31.			. О
ATOM	2986	CA			413	15.450	36.308	47.363	1.00 31.			. С И
	_	-						-7.505				•

ATOM	2988	CB	GLN	Α	413	15.047	37.265	46.225	1.00 31.75	C
ATOM	2991	CG	GLN	A	413	14.186	38.451	46.677	1.00 32.45	C
ATOM	2994	CD			413	12.697	38.121	46.787	1.00 33.94	C
ATOM	2995	OE1	GLN	Α	413	11.901	38.467	45.903	1.00 33.34	0
ATOM	2996	NE2	GLN			12.315	37.478	47.885	1.00 34.73	
ATOM	2999	С			413	15.690	34.878	46.829	1.00 34.89	И
ATOM	3000	Ŏ			413	14.913	34.383	46.013	1.00 31.36	C
ATOM	3001	N	ASP			16.754	34.220	47.305		0
ATOM	3003	CA	ASP			16.985	32.786		1.00 31.27	N
ATOM	3005	CB			414			47.074	1.00 30.71	. C
ATOM	3008	CG	ASP			18.280 18.531	32.560	46.309	1.00 31.02	С
ATOM	3009		ASP				31.093	46.011	1.00 31.49	C
ATOM	3010		ASP			17.565	30.318	45.914	1.00 30.43	0
ATOM	3011					19.675	30.626		1.00 35.74	0
ATOM	3012	C	ASP ASP			17.011	32.013	48.395	1.00 29.99	C
		0				18.053	31.757	48.972	1.00 30.08	0
ATOM	3013	N			415	15.825	31.637	48.835	1.00 29.76	N
ATOM	3015	CA			415	15.558	30.998	50.121	1.00 29.41	С
MOTA	3017	CB			415	14.022	30.850	50.207	1.00 30.33	C
ATOM	3020	CG			415	13.436	30.284	51.497	1.00 33.12	С
ATOM	3023	CD			415	11.907	30.459	51.562	1.00 36.96	Ç
MOTA	3024	OE1	GLN			11.336	30.617	52.650	1.00 40.03	o o
ATOM	3025		GLN			11.248	30.432	50.397	1.00 38.38	N
ATOM	3028	С			415	16.252	29.639	50.270	1.00 27.79	С
ATOM	3029	0			415	16.727	29.292	51.340	1.00 27.83	0
ATOM	3030	N			416	16.335	28.887	49.179	1.00 26.66	N
ATOM	3032	CA			416	16.873	27.521	49.191	1.00 25.86	С
ATOM	3034	CB			416	16.172	26,680	48.121	1.00 25.70	C
ATOM	3037	CG			416	14.650	26.622	48.262	1.00 25.24	Ċ
ATOM	3039		LEU			14.069	25.860	47.119	1.00 24.23	Ċ
MOTA	3043	CD2	LEU	Α	416	14.276	25.986	49.577	1.00 25.64	Ċ.
ATOM	3047	С	LEU	Α	416	18.381	27.417	48.970	1.00 25.39	Č.
ATOM	3048	0	LEU			18.920	26.315	48.870	1.00 25.50	Ö
ATOM	3049	N	ARG			19.040	28.562	48.846	1.00 24.30	N
MOTA	3051	CA	ARG	Α	417	20.480	28.648	48.700	1.00 23.93	Ċ
ATOM	3053	CB	ARG	Α	417	20.904	30.109	48.968	1.00 24.83	Č
ATOM	3056	CG	ARG	Α	417	21.901	30.674	48.016	1.00 26.61	č
ATOM	3059	CD	ARG	Α	417	23.170	29.934	47.979	1.00 29.59	č
MOTA	3062	NE	ARG	Α	417	24.219	30.705	47.300	1.00 31.46	Ŋ
ATOM	3064	CZ	ARG	Α	417	24.563	30.566	46.028	1.00 32.48	C
MOTA	3065	NH1	ARG	Α	417	23.923	29.718	45.218	1.00 31.64	Ŋ
MOTA	3068	NH2	ARG	Α	417	25.561	31.297	45.560	1.00 35.09	Ŋ
MOTA	3071	С	ARG	Α	417	21.189	27.809	49.740	1.00 22.27	Ċ
MOTA	3072	0	ARG	Α	417	22.056	27.006	49.463	1.00 22.01	ŏ
MOTA	3073	N	PHE	A	418	20.832	28.087	50.966	1.00 20.58	N
ATOM	3075	CA	PHE	A	418	21.497	27.534	52.085	1.00 20.58	Č
MOTA	3077	CB	PHE	Α	418	20.929	28.221	53.334	1.00 20.56	č
MOTA	3080	CG	PHE			21.459	27.688	54.603	1.00 21.90	č
ATOM	3081	CD1	PHE			22.804	27.730	54.866	1.00 22.80	č
ATOM	3083		PHE			23.301	27.249	56.078	1.00 24.14	č
ATOM	3085	CZ	PHE			22.445	26.710	57.020	1.00 22.87	Č
ATOM	3087		PHE	Α	418	21.104	26.667	56.766	1.00 24.34	Ċ
ATOM	3089	CD2		Α	418	20.607	27.160	55.557	1.00 24.46	Ċ
ATOM	3091	С	PHE			21.344	25.993	52.093	1.00 24.40	C
ATOM	3092	ō	PHE			22.341	25.280	52.142	1.00 19.56	0
ATOM	3093	N			419	20.113	25.482	52.142	1.00 19.36	
MOTA	3094	CA			419	19.937	24.034	51.997	1.00 18.75	N
ATOM	3096	CB	PRO			18.399	23.841	52.040	1.00 18.75	C
ATOM	3099	CG			419	17.805	25.158	51.682	1.00 18.34	C
ATOM	3102	CD			419	18.813	26.194	52.076		C
ATOM	3105	C			419	20.570	23.371		1.00 18.47	
ATOM	3106	Ö			419	21.038	22.275	50.779	1.00 18.68	C
		<u> </u>			323		22.213	50.925	1.00 17.29	0
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ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	3107 31114 3117 3122 3123 3123 3123 3123 3123 3123	NH2 C O N CABGCC C O N C C C C C C C C C C C C C C C C	ARG ARG MET MET MET MET MET LEU LEU LEU LEU LEU	AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	420 420 420 420 420 420 420 421 421 421 421 422 422 422 422 422 422	20.604 21.293 21.115 19.738 19.688 18.507 18.369 19.334 17.267 23.384 23.776 23.389 24.727 25.982 24.393 24.393 24.393 23.7756 25.982 24.393 23.7756 24.393 23.7756 24.393 24.393 24.393 24.393 24.393 24.393 24.393 24.393 24.393 27.225 25.25 27.265 27.27 27.868 24.358 24.358 27.290 27.290 27.290 27.290 27.290 27.290 27.290 27.290 27.290 27.290 27.290 27.290 27.290 27.290 27.290 27.290 27.290 27.290 27.290 27.290 27.290 27.290 27.290 27.290 27.290 27.290 27.290 27.290 27.290 27.290 27.290 27.290 27.290 27.290 27.290 27.290 27.290 27.290 27.290 27.290 27.290 27.290 27.290 27.290 27.290 27.290 27.290 27.290 27.290 27.290 27.290 27.290 27.290 27.290 27.290 27.290 27.290 27.290 27.290 27.290 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1.00 24.63 1.00 25.26 1.00 21.25 1.00 21.30 1.00 22.24 1.00 23.34 1.00 23.34 1.00 21.62 1.00 17.89 1.00 17.89 1.00 17.59 1.00 19.26 1.00 19.26 1.00 15.25 1.00 15.25 1.00 15.25 1.00 17.71 1.00 17.71 1.00 15.24		COCCOCCOCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
											C
MOTA	3219	CD2	LEU	Α	425	29.689	19.777	53.638			С
								51.846	1.00 15.24		С
ATOM	3224	N			425 426	26.103	15.346 16.064	52.119 51.470	1.00 15.24 1.00 14.71		O N
MOTA	3227	CA	VAL	Α	426	25.576	14.726	51.249	1.00 14.71		N C
MOTA	3229	CB	VAL	Α	426	24.041	14.703	50.975	1.00 13.91		Ċ
ATOM	3231		VAL			23.580	13.309	50.838	1.00 13.11		С
ATOM	3235		VAL			23.228	15.408	52.101	1.00 14.22		С
ATOM ATOM	3239 3240	C			426	26.263	14.040	50.077	1.00 15.09		C
ATOM	3240	O N			426 427	26.597 26.374	12.852	50.171	1.00 14.93		. 0
ATOM	3241	CA			427	26.374 27.035	14.758 14.272	48.950	1.00 15.49		Й
-11 011	2543	O.A.	ORK	A	421	21.035	14.212	47.736	1.00 15.56	•	С

ATOM	3245	СВ	SER	7\	427	27.087	15 203	46 604				
ATOM	3248	OG	SER				15.387	46.694		15.86		С
ATOM	3250					25.829	15.628	46.117		18.97		0
		C	SER			28.483	13.883	48.043		15.75		С
ATOM	3251	0	SER			28.965	12.837	47.616		15.74		0
ATOM	3252	N	LEU			29.163	14.730	48.806		15.28		N
ATOM	3254	CA	LEU			30.518	14.463	49.183	1.00	16.34		С
MOTA	3256	CB	LEU	Α	428	31.104	15.660	49.935	1.00	16.46		С
ATOM	3259	CG	LEU	Α	428	31.367	16.893	49.096		16.94		Ċ
MOTA	3261	CD1	LEU	Α	428	31.746	18.004	50.036		19.53		č
ATOM	3265	CD2	LEU	Α	428	32.479	16.617	48.078		16.50		Č
ATOM	3269	С	LEU			30.699	13.199	50.022		16.91		Č
ATOM	3270	0	LEU			31.729	12.536	49.880		16.87		Ö
ATOM	3271	N	ARG			29.754	12.872	50.916		17.30		
ATOM	3273	CA	ARG			29.880	11.617	51.670		17.91		N
ATOM	3275	CB	ARG			28.730	11.374	52.612				C
ATOM	3278	CG	ARG			28.861	11.936			18.11		C
ATOM	3281	CD	ARG					53.873		19.58		С
ATOM	3284	NE				30.164	11.661	54.641		21.53		С
			ARG			30.184	12.737	55.630		21.34		N
MOTA	3286	CZ	ARG			29.809	12.585	56.872		19.67		С
ATOM	3287		ARG			29.501	11.405	57.320		16.91		N
MOTA	3290		ARG			29.784	13.633	57.677	1.00	24.69		N
MOTA	3293	С	ARG			29.885	10.424	50.759		18.03		С
ATOM	3294	0	ARG			30.661	9.500	50.948	1.00	19.08		0
ATOM	3295	N	THR			28.964	10.413	49.814	1.00	17.59		N
ATOM	3297	CA	THR	A	430	28.948	9.365	48.810	1.00	17.28		С
ATOM	3299	CB	THR	Α	430	27.691	9.495	47.972		16.89		Ċ
MOTA	3301	OG1	THR	Α	430	26.552	9.207	48.793	1.00	16.44		Õ
ATOM	3303	CG2	THR	Α	430	27.647	8.457	46.895		16.72		Č
MOTA	3307	С	THR	Α	430	30.216	9.384	47.921		17.34		č
ATOM	3308	0	THR			30.728	8.343	47.576		18.01		Õ
ATOM	3309	N	LEU			30.718	10.550	47.541		17.45		N
ATOM	3311	CA	LEU			31.968	10.598	46.758		17.22		C
ATOM	3313	СВ	LEU			32.272	12.015	46.336		16.74		
ATOM	3316	CG	LEU			31.800	12.552					C
ATOM	3318		LEU			31.263		44.966		16.62		C
ATOM	3322		LEU				11.522	44.010		15.12		С
ATOM	3326					30.838	13.686	45.134		14.98		C
ATOM	3327	C	LEU			33.159	10.006	47.554		17.29		С
		0	LEU			34.049	9.402	47.004		16.51		0
ATOM	3328	N	SER			33.108	10.131	48.863		17.72		N
ATOM	3330	CA	SER			34.080	9.531	49.726		18.63		С
ATOM	3332	CB	SER			33.796	9.946	51.149		18.84		С
ATOM	3335	OG	SER			34.982	9.889	51.872		20.35	÷	0
ATOM	3337	C	SER			34.113	8.013	49.691	1.00	19.34		С
MOTA	3338	0	SER			35.207	7.421	49.779		20.24		0
MOTA	3339	N	SER			32.933		49.648	1.00	19.33		N
MOTA	3341	CA	SER			32.830	5.935	49.475	1.00	19.25		С
MOTA	3343	CB	SER			31.380	5.457	49.606	1.00	19.52		С
MOTA	3346	OG	SER	Α	433	30.864	5.761	50.876		23.43		0
MOTA	3348	С	SER	Α	433	33.315	5.497	48.112		18.21		C
MOTA	3349	0	SER	A	433	33.955	4.449	47.984		18.98		ō
MOTA	3350	N	VAL	Α	434	32.938	6.245	47.088		17.26		N
ATOM	3352	CA	VAL	Α	434	33.393	5.976	45.732		17.49		Ċ
MOTA	3354	CB	VAL			32.777	6.997	44.757		17.59		č
ATOM	3356		VAL			33.461	6.954	43.419		17.34		Č
ATOM	3360		VAL			31.222	6.725	44.582		17.82		Č
ATOM	3364	C	VAL			34.947	5.981					C
ATOM	3365	Ö	VAL			35.566		45.668		17.71		C
ATOM	3366	N	HIS			35.548	5.123	45.023		17.05		0
ATOM	3368	CA	HIS				6.927	46.376		17.43		N
ATOM	3370	CB				36.977	7.015	46.504		18.66		C
ATOM	3373	CG	HIS			37.352	8.325	47.193		18.49		C
ALOM	33/3		HIS	H	433	38.785	8.406	47.609	T.00	18.52		С
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MOTA	3374	ND1	HIS	Α	435		39.163	8.437	48.933	1.00 16.02		N
ATOM	3376		HIS				40.478	8.526	49.004	1.00 17.34		С
ATOM	3378		HIS				40.968	8.542	47.775	1.00 16.72		N
MOTA	3380		HIS				39.930	8.488	46.882	1.00 17.51		С
MOTA	3382	С	HIS			•	37.608	5.813	47.245	1.00 19.59		C
MOTA	3383	0	HIS				38.643	5.325	46.816	1.00 19.38		0
ATOM	3384	N	SER				37.001	5.349	48.339	1.00 20.61		N
ATOM	3386	CA	SER				37.480	4.150	49.021	1.00 21.50		С
ATOM	3388	CB	SER				36.635	3.807	50.249	1.00 21.87		С
MOTA	3391	OG	SER				36.836	4.754	51.285	1.00 24.47		0
ATOM	3393	C .	SER				37.444	2.984	48.060	1.00 21.81		С
ATOM	3394	0	SER				38.369		48.064	1.00 22.13		0
ATOM	3395	N	GLU				36.402	2.909	47.225	1.00 21.73		N
MOTA	3397	CA	GLU				36.338	1.831		1.00 22.18		С
ATOM	3399	CB	GLU				34.969	1.748	45.500	1.00 22.15		С
ATOM	3402	CG	GLU				33.758	1.448	46.410	1.00 24.83		С
MOTA	3405	CD	GLU				32.416	2.022	45.883	1.00 27.98		С
MOTA	3406		GLU				31.628	2.616	46.692	1.00 29.68		0
MOTA	3407	OE2					32.143		44.661	1.00 27.41		0
ATOM	3408	С	GLU				37.484	1.970	45.215	1.00 21.66 ·		.C
ATOM.	3409	0	GLU				38.007	0.954	44.753	1.00 21.07		0
MOTA	3410	N	GLN				37.872	3.205	44.870	1.00 21.22		N
MOTA	3412	CA	GLN				38.960	3.418	43.898	1.00 21.53		С
MOTA	3414	СВ	GLN				38.925	4.838	43.308	1.00 21.92		С
ATOM	3417	CG	GLN				40.182	5.303	42.532	1.00 22.14		С
ATOM	3420	CD	GLN				40.414	4.542	41.242	1.00 22.72		С
ATOM	3421		GLN				39.994	4.978	40.162	1.00 22.48		0
MOTA	3422		GLN				41.103	3.411	41.344	1.00 21.67		N
ATOM	3425	C .			438		40.309	3.088	44.552	1.00 21.78		С
ATOM	3426	0			438		41.221	2.624	43.892	1.00 21.15		0
ATOM	3427	N			439		40.406	3.287	45.863	1.00 22.24		N
ATOM	3429	CA			439		41.626	2.983	46.581	1.00 22.93		C
MOTA	3431	CB			439		41.617	3.590	47.995	1.00 22.83		Č
MOTA	3433		VAL				42.726	2.982	48.850	1.00 22.44		C
ATOM ATOM	3437 3441		VAL		439		41.782	5.070	47.915	1.00 23.07		C
ATOM	3442	C O			439		41.797 42.904	1.472 0.957	46.662 46.531	1.00 23.19		C
ATOM	3443	И			440		40.686	0.782	46.887	1.00 23.61 1.00 23.59		0
ATOM	3445	CA			440		40.632	-0.679	46.948	1.00 23.39		N
ATOM	3447	CB			440		39.216	-1.108	47.359	1.00 23.72		C
ATOM	3450	CG			440	•	39.072	-2.575	47.643	1.00 25.83		Č
ATOM	3451		PHE			•	39.203	-3.059	48.944	1.00 20.10		~
ATOM	3453		PHE				39.080	-4.425	49.208	1.00 27.31		CCC
ATOM	3455	CZ			440		38.812	-5.337	48.155	1.00 28.49		č
ATOM	3457		PHE				38.676	-4.863	46.855	1.00 27.80		č
ATOM	3459		PHE				38.798	-3.482	46.603	1.00 27.54		č
ATOM	3461	C			440		41.031	-1.261	45.592	1.00 23.41	•	č
MOTA	3462	ō			440		41.835	-2.175	45.534	1.00 23.32		ō
MOTA	3463	N			441		40.503	-0.700	44.507	1.00 23.68		N
ATOM	3465	CA			441		40.850	-1.132	43.144	1.00 24.12		C
MOTA	3467	CB			441		39.945	-0.475	42.110	1.00 23.79		C
MOTA	3471	С			441		42.320	-0.901	42.762	1.00 24.90		C
MOTA	3472	0			441		42.830	-1.583	41.875	1.00 24.76		0
ATOM	3473	N			442		42.985	0.062	43.408	1.00 25.88		N
ATOM	3475	CA			442		44.424	0.258	43.232	1.00 26.68	•	С
ATOM	3477	CB			442		44.873	1.619	43.763	1.00 26.33		С
MOTA	3480	CG			442		44.327	2.844	43.037	1.00 26.21		С
ATOM	3482	CD1	LEU				44.704	4.101	43.802	1.00 25.44		С
MOTA	3486	CD2			442		44.812	2.906	41.604	1.00 25.65		С
MOTA	3490	С			442		45.206	-0.852	43.922	1.00 27.53		С
MOTA	3491	0	LEU	A	442		46.138	-1.376	43.354	1.00 27.92		0

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	ATOM	3492	N	ARG			44.801	-1.200	45.139	1.00	29.13		N
	MOTA	3494	CA	ARG			45.410	-2.278	45.937		30.54		Ċ
	ATOM	3496	CB	ARG	Α	443	44.631	-2.482	47.251		31.28		č
	ATOM	3499	CG	ARG			45.319	-1.941	48.495		34.06		Č
	ATOM	3502	CD	ARG	Α	443	46.103	-3.002	49.305		37.28		č
	ATOM	3505	NE	ARG			45.886	-2.830	50.750		39.82		
	ATOM	3507	CZ			443	45.823	-3.816	51.652		41.09		N
	ATOM	3508		ARG			45.961	-5.094	51.303				С
	ATOM	3511		ARG			45.610	-3.505			40.52		N
	ATOM	3514	С			443	45.489		52.932		42.23		N
	ATOM	3515	ŏ	ARG			46.546	-3.617	45.211		30.54		С
	ATOM							-4.267	45.211		30.72		0
		3516	N	LEU			44.389	-4.038	44.596		30.38		N
	ATOM	3518	CA	LEU			44.412	-5.305	43.840		30.47		С
	ATOM	3520	CB	LEU			43.007	-5.927	43.708	1.00	30.45		С
	ATOM	3523	CG	LEU	Α	444	41.844	-5.080	43.182	1.00	30.54		С
	ATOM	3525	CD1	LEU	Α	444	41.765	-5.168	41.674	1.00	30.70		C
	MOTA	3529		LEU			40.541	-5.535	43.811		31.11		Č
	ATOM	3533	С	LEU			45.100	-5.161	42.472	1.00	30.14	•	Č
	ATOM	3534	0	LEU	Α	444	45.595	-6.144	41.931		30.25		ŏ
	ATOM	3535	N	GLN	Α	445	45.160	-3.937	41.941		29.84		N
	ATOM	3537	CA	GLN	Α	445	45.814	-3.652	40.651		29.80		C N
	ATOM	3539	CB			445	45.078	-2.484	39.986		30.05		C
	ATOM	3542	CG	GLN			45.441	-2.111	38.547		30.96		
	ATOM	3545	CD			445	44.927	-0.707	38.194				C
	ATOM	3546		GLN			45.652	0.115	37.613		33.36		C
	ATOM	3547	NE2	GLN	Δ	445	43.686	-0.426			35.36		0
	ATOM	3550	C	GLN			47.331		38.575		33.42		N
	ATOM	3551	Ö			445		-3.356	40.801		29.48		С
	ATOM	3552					47.991	-2.911	39.847		29.37		0
	ATOM		N	ASP			47.883	-3.632	41.988		28.99		N
		3554	CA	ASP			49.315	-3.451	42.273		28.52		С
	ATOM	3556	CB	ASP			50.162	-4.386	41.389		28.74		С
	ATOM	3559	CG	ASP	A	446	50.582	-5.653	42.115		30.00		С
	ATOM	3560	ODI	ASP	A	446	51.055	-5.551	43.270		31.05		0
	ATOM	3561		ASP			50.473	-6.794	41.603	1.00	31.36		0
	ATOM	3562	С	ASP			49.802	-1.995	42.130	1.00	27.48		С
	ATOM	3563	0	ASP			50.983	-1.755	41.850		27.27		ō
	MOTA	3564	N	LYS	Α	447	48.896	-1.035	42.317		25.97		N
	MOTA	3566	CA	LYS	Α	447	49.236	0.379	42.194		25.34		Ċ
	ATOM	3568	CB	LYS			48.236	1.112	41.308		25.56		Č
	MOTA	3571	CG	LYS	Α	447	48.791	1.476	39.941		27.42		c
	ATOM	3574	CD	LYS	A	447	47.937	2.541	39.234		29.14		c
	ATOM	3577	CE	LYS			48.324	2.703	37.756		29.77		
	MOTA	3580	NZ	LYS			49.794	2.489	37.525		29.95		C
	ATOM	3584	С	LYS			49.281	1.012	43.574		24.20		N
	ATOM	3585		LYS			48.264		44.273				С
	ATOM	3586	N	LYS			50.465	1.479	43.961		24.40		0
	ATOM	3588	CA	LYS			50.708				22.65		N
	ATOM	3590	СВ	LYS			52.132	1.963	45.322		21.68		C
	ATOM	3593	CG	LYS				1.609	45.769		22.05		C
	ATOM	3596	CD				52.363	0.108	45.985		23.85		C
	ATOM	3599		LYS			51.620	-0.402	47.242		25.90		С
			CE	LYS			51.029	-1.793	47.032		27.29		С
	ATOM	3602	NZ	LYS			52.111	-2.843	46.988	1.00	27.04		N
	MOTA	3606	C	LYS			50.500	3.469	45.466		19.63		С
	ATOM	3607	0	LYS			50.992	4.256	44.662	1.00	19.17		0
	ATOM	3608	N	LEU			49.763	3.857	46.499	1.00	17.42		N
	ATOM	3610	CA	LEU			49.747	5.246	46.931		16.08		C
	MOTA	3612	CB	LEU			48.709	5.470	48.016		15.80		č
	MOTA	3615	CG	LEU			47.276	5.187	47.620		15.59		č
	MOTA	3617	CD1	LEU	A	449	46.393	5.462	48.794		15.93		Č
	MOTA	3621		LEU	Α	449	46.889	6.042	46.441		16.59		c
	ATOM	3625	С	LEU			51.119	5.609	47.497	1.00	14.86		C
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ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	3626 3627 3628 3633 3633 3639 3644 3644 3645 3655 3655 3655 3665 3666 3676 3676 367	O N CA CB CCD C O N CA CB CCD C O N CA CB CCD C C C C C C C C C C C C C C C C	PRO	AAAAAAAAAAAAAAAAAAAAA	450 450 450 450 451 451 451 451 451 451 452 452 452 453 453 455 455 455 455 455 455 455 455	51 52 53 55 55 55 55 55 55 55 55 55 55 55 55	.716 602 857 794 523 591 523 536 663 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963 963	4.819 6.815 7.287 8.619 9.075 7.849 7.451 7.579 7.354 7.498 6.908 7.221 8.432 8.113 9.662 10.694 12.127 12.577 13.827 12.8161 10.735 9.584 9.473 10.799		48.213 47.207 47.801 47.106 46.715 46.361 49.305 49.705 50.114 51.579 52.050 53.182 51.726 51.726 51.726 51.728 52.20 52.20 53.726 51.726 52.20 52.20 53.726 54.726 55.798 54.728 55.798 56.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57.700 57	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	14.21 13.64 12.45 12.02 12.24 13.38 11.44 10.71 11.97 11.99 11.22 13.16 14.07 13.81 14.59 13.96 12.67 12.97 15.67 16.83 16.80			N C
ATOM ATOM	3691 3692	C O	LEU		453 453		3.255 7.164	8.252 8.076	?	51.383 51.892		16.93 15.52	•		С С О
ATOM .	3693	N .	SER	Α	454		218	7.338	}	51.892		15.52			N O
ATOM	3695	CA	SER	A	454	48	3.998	6.054	l	52.085	1.00	18.57		(	С
ATOM ATOM	3697	CB			454		.234	5.177		52.002		18.79			С
ATOM	3700 3702	OG C			454 454		0.044 3.583	3.985 6.204		52.760 53.539		21.39 18.91	•		0
ATOM	3703	ŏ			454		7.734	5.448		53.989		18.91			С О
MOTA	3704	N	GLU	Α	455		.181	7.165	5	54.252		19.47			N
ATOM	3706	CA			455		3.911	7.434		55.674	1.00	20.61			С
ATOM ATOM	3708 3711	CB CG			455 455		0.792 L.133	8.600 8.200		56.226 56.856		20.80			C
ATOM	3714	CD			455		2.067	9.397		57.206		22.89 24.58			C C
MOTA	3715		GLU	Α	455	53	3.185	9.162	?	57.768	1.00	18.79			ŏ
ATOM ATOM	3716 3717	OE2 C	GLU		455 455	51	.687	10.571		56.909		25.06			0
ATOM	3718	Õ			455	4 6	7.455 5.915	7.813 7.648		55.869 56.942		21.13 20.97			C O
MOTA	3719	N			456		5.842	8.380		54.842		22.30			N
ATOM	3721	CA			456		.468	8.851	L	54.948	1.00	23.36			С
ATOM ATOM	3723 3725	CB CG1			456 456		5.211 5.271	10.156 11.223		54.107		23.51			C
ATOM	3728		ILE	Ā	456		5.137	12.411		54.348 53.377		24.04 24.87			C C
ATOM	3732	CG2	ILE	Α	456		3.862	10.788	3	54.457		23.80			c
MOTA	3736	С			456		1.460	7.772		54.552	1.00	23.95			С
ATOM ATOM	3737 3738	O N			456 457		3.472 1.715	7.588 7.054		55.255 53.460		24.60			0
ATOM	3740	CA			457		3.686	6.274		52.788		24.49 25.10			N C
ATOM	3742	CB	TRP	Α	457	43	3.581	6.757	7	51.352		24.61		-	č
ATOM ATOM	3745 3746	CG.	TRP	A	457		3.172	8.173		51.286		24.27			С
ATOM	3748	NE1	TRP TRP	A	457 457		2.382 2.225	8.843 10.146		52.173 51.774		23.43 23.31			C
ATOM	3750	CE2	TRP	A	457		2.909	10.339		50.607		23.37			N C

MOTA	3751	CD2	TRP	Α	457	43.513	9.113	50.268	1.00	24.59	С
ATOM	3752	CE3	TRP	Α	457	44.274	9.046	49.096		25.78	
ATOM	3754	CZ3	TRP			44.408					C
							10.189	48.323		26.73	С
ATOM	3756		TRP			43.796	11.396	48.698	1.00	24.85	С
ATOM	3758	CZ2	TRP	Α	457	43.053	11.489	49.833	1.00	24.21	C
ATOM	3760	С	TRP	Α	457	43.811	4.752	52.805		26.89	č
ATOM	3761	Õ	TRP			42.804					
							4.056	52.578		26.84	0
ATOM	3762	N	ASP			45.011	4.216	53.039	1.00	28.36	N
ATOM	3764	CA	ASP	Α	458	45.153	2.759	53.106	1.00	29.97	С
ATOM	3766	CB	ASP	Α	458	46.605	2.290	52.851		29.50	č
ATOM	3769	CG	ASP			47.037	2.432	51.388			Ç
ATOM	3770		ASP							28.75	С
						46.194	2.287	50.471		25.80	0
ATOM	3771		ASP			48.218	2.709.	51.066	1.00	28.62	0
ATOM	3772	С	ASP	Α	458	44.668	2.262	54.471		31.78	.C
ATOM	3773	0	ASP	Α	458	44.698	3.026	55.444		31.76	ŏ
ATOM	3774	N	VAL			44.229	0.994	54.538			
ATOM	3776		VAL							33.72	N
		CA				43.925	0.350	55.829		35.18	С
MOTA	3778	CB	VAL			42.776	-0.738	55.764	1.00	35.47	С
ATOM	3780	CG1	VAL	Α	459	41.402	-0.065	55.696		36.37	Ċ
ATOM	3784	CG2	VAL	Α	459	42.954	-1.714	54.600		35.60	Č
ATOM	3788	C	VAL			45.207	-0.240				
ATOM	3789							56.430		36.19	С
		0	VAL			46.053	-0.769	55.701		36.50	0
ATOM	3790	N	ALA			45.338	-0.119	57.759	1.00	37.07	N
ATOM	3792	CA	ALA	Α	460	46.520	-0.567	58.513	1.00	37.34	C
ATOM	3794	CB	ALA	Α	460	46.663	-2.107	58.448		37.39	č
ATOM	3798	С	ALA			47.805	0.130	58.048		37.43	2
ATOM	3799	ŏ									С
			ALA			47.797	1.331	57.735		38.01	0
ATOM	3800		GW3			45.928	22.483	41.966	1.00	29.37	0
ATOM	3801		GW3			46.006	22.922	43.117	1.00	27.82	С
ATOM	3802	036	GW3	Α	500	46.154	24.137	43.352		30.11	ŏ
ATOM	3803		GW3			45.991	22.048	44.336			
ATOM	3806		GW3							25.98	С
						45.090	20.843	44.120		24.26	C
ATOM	3807		GW3			45.577	19.636	43.605	1.00	22.94	С
ATOM	3809	C31	GW3	Α	500	43.729	20.985	44.385		22.24	C
ATOM	3811	C30	GW3	Α	500	42.848	19.935	44.145		23.11	č
ATOM	3813		GW3			43.333	18.734				C
ATOM	3815		GW3					43.634		22.63	C
						44.691	18.592	43.361		23.34	C
ATOM	3816		GW3			45.145	17.397	42.893	1.00	23.88	0
MOTA	3817		GW3			44.617	16.843	41.708	1.00	24.90	С
ATOM	3820	C25	GW3	Α	500	44.920	15.377	41.703		24.64	č
ATOM	3823		GW3			44.100	14.679	40.630		24.72	
ATOM	3826		GW3								C
						43.591	13.396	41.119		23.09	N
MOTA	3827		GW3			44.504	12.521	41.826	1.00	27.47	C
ATOM	3830		GW3			43.883	11.827	42.999	1.00	32.67	С
ATOM	3831	C19	GW3	A	500	44.086	10.381	43.132	1.00	37.17	Č
ATOM	3832	CL4	GW3			45.046	9.500	41.913		48.91	$\overset{\mathtt{Cr}}{\circ}$
ATOM	3833		GW3			43.138	12.498				
		023	CMS	~	500			43.950		33.22	С
ATOM	3835	C22	GW3	A	500	42.580	11.795	45.015		34.93	C
ATOM	3837		GW3			42.742	10.415	45.175	1.00	37.10	С
MOTA	3839	C20	GW3	Α	500	43.479	9.662	44.266	1.00	39.44	C
MOTA	3840	C39	GW3	Α	500	43.672	8.164	44.368		41.02	č
ATOM	3841		GW3			43.097	7.617	43.292			
ATOM	3842									40.05	F
		E40	GW3	H	200	43.146	7.681	45.481		42.09	F
MOTA	3843		GW3			44.958	7.854	44.374		42.72	F
ATOM	3844		GW3			42.341	12.851	40.595		20.89	C
MOTA	3847		GW3			41.159	13.837	40.585		18.51	č
MOTA	3849		GW3			40.117	13.455	39.587			
ATOM	3850		GW3							17.88	C
						39.839	12.122	39.259		17.60	С
MOTA	3852		GW3			38.864	11.795	38.318		17.52	C
MOTA	3854	C04	GW3	A	500	38.142	12.800	37.693		16.64	С
ATOM	3856	<u>C</u> 05	GW3	Α	500	38.428	14.125	37.997		17.54	č
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ATOM	3858	C06	GW3	A 500		39.393	14.461	38.949	1 00 10 0
ATOM	3860	C10	GW3	A 500		40.562	13.938	41.935	1.00 16.25
ATOM	3861	C11	GW3	A 500		40.530	15.163	42.570	1.00 18.44
ATOM	3863	C12	GW3	A 500		39.978	15.260		1.00 17.75
ATOM	3865	C13		A 500		39.457	14.147	43.843	1.00 19.18
ATOM	3867		GW3	A 500		39.502		44.489	1.00 18.83
ATOM	3869	C15		A 500		40.038	12.905	43.858	1.00 19.46
ATOM	3871	04		A 501		41.801	12.811 25.834	42.572	1.00 19.27
ATOM	3873	C2		A 501		42.137	25.034	49.973	1.00 47.81
ATOM	3875	C3		A 501		40.900		51.196 51.845	1.00 45.49
ATOM	3879			A 501		43.140	24.618 24.140	50.870	1.00 46.17
ATOM	3883	N	LEU			1.952	28.417	56.409	1.00 45.25
ATOM	3885	CA	LEU			2.004	27.365	55.326	1.00 20.12
ATOM	3887	CB	LEU			1.870	25.949	55.891	1.00 20.40
ATOM	3890	CG	LEU			2.969	25.326	56.771	1.00 20.67
ATOM	3892	CD1				2.525	23.974	57.322	1.00 22.03
ATOM	3896		LEU			4.275	25.170	56.045	1.00 22.13
MOTA	3900	C	LEU			0.888	27.586	54.308	1.00 22.68
ATOM	3901	0	LEU			-0.198		54.679	1.00 19.67
ATOM	3904	N	THR			1.161	27.370	53.035	1.00 19.18
MOTA	3906	CA	THR			0.118	27.358	52.008	1.00 19.13
ATOM	3908	CB	THR			0.721	27.418	50.597	1.00 18.93
ATOM	3910	OG1	THR			1.595	26.293	50.362	1.00 19.02 1.00 15.73
ATOM	3912	CG2				1.623		50.302	
ATOM	3916	C .	THR			-0.784	26.126	52.103	1.00 19.21 1.00 19.37
MOTA	3917	0	THR			-0.438	25.144	52.736	1.00 19.37
MOTA	3918	N	ALA	B 222		-1.940	26.185	51.461	1.00 19.29
MOTA	3920	CA	ALA			-2.853	25.055	51.450	1.00 19.97
MOTA	3922	CB	ALA			-4.114	25.374	50.664	1.00 20.36
ATOM	3926	С	ALA	B 222		-2.142	23.870	50.844	1.00 20.23
MOTA	3927	0	ALA	B 222		-2.277	22.766	51.330	1.00 20.50
ATOM	3928	N	ALA	B 223		-1.358	24.128	49.803	1.00 20.84
ATOM	3930	CA	ALA	B 223		-0.660	23.080	49.060	1.00 21.31
ATOM	3932	CB	ALA	B 223		-0.020	23.660	47.810	1.00 21.51
ATOM	3936	С	ALA	B 223		0.407	22.397	49.885	1.00 21.16
MOTA	3937	0		B 223		0.601	21.211	49.747	1.00 21.87
ATOM	3938	N		B 224		1.112	23.153	50.717	1.00 20.73
MOTA	3940	CA		B 224		2.102	22.585	51.614	1.00 20.66
ATOM	3942	CB		B 224		2.996	23.683	52.217	1.00 20.60
ATOM	3945	CG		B 224		3.888	24.368	51.165	1.00 21.61
ATOM	3948	CD	GLN		· ·	4.685	25.571	51.698	1.00 20.35
ATOM	3949	OE1	GLN			4.233	26.288	52.592	1.00 20.73
ATOM	3950	NE2		B 224		5.874	25.774	51.147	1.00 18.48
ATOM ATOM	3953	C .		B 224		1.424	21.766	52.709	1.00 20.54
	3954	0		B 224		1.925	20.722	53.076	1.00 20.39
MOTA	3955	N		B 225		0.319	22.261	53.253	1.00 20.45
ATOM ATOM	3957 3959	CA		B 225		-0.474	21.489	54.209	1.00 21.68
ATOM	3962	CB		B 225		-1.603	22.355	54.810	1.00 22.26
ATOM	3965	CG		B 225		-1.091	23.506	55.700	1.00 24.57
ATOM	3966	CD OE1		B 225		-2.190	24.430	56.226	1.00 28.84
ATOM	3967			B 225		-3.390	24.145	56.006	1.00 30.04
ATOM	3968			B. 225		-1.856	25.452	56.894	1.00 32.32
ATOM	3969	С 0	CT II	B 225		-1.021	20.178	53.568	1.00 21.44
ATOM	3970	N	T.E.L.	B 225 B 226		-0.821	19.102	54.102	1.00 21.30
ATOM	3972	CA	T.PTI	B 226		-1.645	20.268	52.398	1.00 21.09
ATOM	3974	CB		B 226		-2.087	19.082	51.680	1.00 21.40
ATOM	3977	CG		B 226		-2.688 -3.452	19.425	50.307	1.00 20.97
ATOM	3979	CD1		B 226		-3.452	18.233	49.725	1.00 21.69
ATOM	3983			B 226	•	-4.473 -4.165	17.665	50.726	1.00 20.99
ATOM	3987	C		B 226		-0.966	18.624 18.076	48.450	1.00 23.12
						0.500	20.076	51.485	1.00 21.71

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ATOM	3988	0	LEU	R	226	-1.132	16.897	51.756	1.00 22.2	1	^
ATOM	3989										0
					227	0.177	18.564	51.031	1.00 21.9		N
ATOM	3991				227	1.344	17.740	50.806	1.00 22.5	4	С
MOTA	3993	CB	MET	В	227	2.477	18.599	50.227	1.00 23.1	8 .	С
MOTA	3996	CG	MET			3.889	18.099	50.497	1.00 27.6		Ċ
ATOM	3999	SD			227	5.252	19.110				2
								49.731	1.00 35.0		S
MOTA	4000	CE			227	4.355	20.407	48.801	1.00 35.0	0	С
MOTA	4004	С	MET	В	227	1.775	16.978	52.062	1.00 21.4	3	С
ATOM	4005	0	MET	В	227	2.044	15.787	52.001	1.00 20.4		0
MOTA	4006	N	ILE			1.837	17.667	53.197	1.00 21.1		
											N
MOTA	4008	CA	ILE			2.226	17.033	54.454	1.00 20.7		С
MOTA	4010	CB	ILE			2.454	18.094	55.552	1.00 20.5	1	С
ATOM	4012	CG1	ILE	В	228	3.753	18.863	55.279	1.00 21.9	9	С
MOTA	4015	CD1	ILE	В	228	3.752	20.289	55.826	1.00 21.8		Ċ
ATOM	4019		ILE			2.541	17.450	56.925	1.00 19.6		č
											Č
ATOM	4023	C	ILE			1.155	16.000	54.882	1.00 20.6		С
MOTA	4024	0	ILE			1.489	14.904	55.320	1.00 20.0	16	0
MOTA	4025	N	GLN	В	229	-0.120	16.359	54.753	1.00 20.0	19	N
ATOM	4027	CA	GLN	В	229	-1.194	15.446	55.120	1.00 20.9	17	С
ATOM	4029	CB	GLN			-2.574	16.126	54.993	1.00 20.9		Č
ATOM	4032	CG	GLN			-2.829	17.199	56.034	1.00 22.0		С
ATOM	4035	CD	GLN			-3.907	18.235	55.593	1.00 27.8	_	С
ATOM	4036	OE1	GLN	В	229	-4.472	18.124	54.487	1.00 32.1	.8	0
ATOM	4037	NE2	GLN	В	229	-4.176	19.235	56.444	1.00 24.4	15	N
ATOM	4040	C	GLN			-1.126	14.146	54.299	1.00 20.3		Ĉ
ATOM	4041	ő	GLN			-1.277	13.080	54.870			
									1.00 20.5		0
MOTA	4042	N	GLN			-0.836	14.247	52.998	1.00 19.9		N
MOTA	4044	CA	GLN	В	230	-0.678	13.092	52.094	1.00 19.7	16	С
MOTA	4046	CB	GLN	В	230	-0.423	13.577	50.638	1.00 19.7	71	С
MOTA	4049	CG	GLN			-1.657	14.211	49.988	1.00 20.9		С
ATOM	4052	CD	GLN			-1.489	14.710	48.537	1.00 24.5		č
ATOM	4053	OE1				-2.232	14.269	47.640	1.00 28.4		0
ATOM	4054	NE2				-0.596	15.686	48.323	1.00 23.6		N
MOTA	4057	С	GLN	В	230	0.439	12.125	52.530	1.00 19.3	30	С
ATOM	4058	0	GLN	В	230	0.288	10.889	52.504	1.00 19.7	78	0
ATOM	4059	N	LEU			1.562	12.691	52.926	1.00 18.2		N
ATOM	4061	CA	LEU			2.728					
							11.909	53.291	1.00 17.4		C
ATOM	4063	CB	LEU			3.978	12.788	53.441	1.00 16.8		С
ATOM	4066	CG			231	4.473	13.501	52.207	1.00 15.7	74	С
ATOM	4068	CD1	LEU	В	231	5.667	14.324	52.595	1.00 16.1	L4	С
ATOM	4072	CD2	LEU	В	231	4.849	12.533	51.189	1.00 17.0		С
ATOM	4076	C			231	2.491	11.257	54.610	1.00 17.3		č
ATOM	4077	Ö			231	2.894		54.802			
							10.119		1.00 16.9		0
ATOM	4078	N			232	1.890	12.003	55.531	1.00 16.0		N
MOTA	4080	CA	VAL	В	232	1.615	11.498	56.860	1.00 16.9	91	С
MOTA	4082	CB	VAL	В	232	1.132	12.631	57.800	1.00 16.5	52	С
ATOM	4084	CG1	VAL			0.611	12.073	59.141	1.00 15.8		С
ATOM	4088		VAL			2.270	13.587	58.082	1.00 17.2		č
											Č
MOTA	4092	C			232	0.579	10.348	56.799	1.00 17.		C
ATOM	4093	0			232	0.771	9.307	57.429	1.00 17.0	67	0
MOTA	4094	N	ALA	₿	233	-0.505	10.557	56.048	1.00 17.4	49	N
MOTA	4096	CA	ALA	В	233	-1.572	9.562	55.883	1.00 17.4	46	. C
ATOM	4098	CB			233	-2.721	10.162	55.063	1.00 16.		Ċ
					233						~
ATOM	4102	C				-1.045	8.277	55.203	1.00 18.0		C
ATOM	4103	0			233	-1.456	7.197	55.546	1.00 18.		0
MOTA	4104	N			234	-0.128	8.412	54.251	1.00 18.	75	N
MOTA	4106	CA	ALA	В	234	0.418	7.274	53.515	1.00 19.		С
ATOM	4108	СВ			234	1.181	7.751	52.301	1.00 19.		Č
ATOM	4112	C			234	1.348		54.439	1.00 20.		
											C
ATOM	4113	0	ALA	8	234	1.357	5.267	54.472	1.00 22.		0
ATOM	4114	N	GLN	В	235	2.096	7.204	55.225	1.00 21.	28	N
									····		

ATOM	4116	CA	GLN	В	235	2.8	397	6.606	56.244	1 00	22.64	
ATOM	4118	CB.	GLN				687	7.686	56.962	1 00	23.12	
MOTA	4121	CG	GLN			4.8	373	7.175	57.721		26.16	
ATOM	4124	CD	GLN				154	7.982	57.483		27.08	
ATOM	4125	OE1	GLN			6.		9.190	57.778		25.27	
ATOM	4126	NE2	GLN				225	7.288	57.050		25.27	
MOTA	4129	С	GLN `				029		57.215		23.11	
ATOM	4130	0	GLN			2.3	374	4.719	57.590		23.05	
ATOM	4131	N	LEU			0.8	386	6.400	57.590			٠
ATOM	4133	CA			236	0.0	026	5.735	58.538		22.82	
MOTA	4135	CB ·	LEU			-1.0	776	6.680	59.060		23.20	
ATOM	4138	CG	LEU				770		60.325		23.47	
ATOM	4140		LEU	В	236	-0.9		6.692	61.552		24.46 25.96	
ATOM	4144	CD2	LEU	В	236	-3.2		6.563	60.375			
ATOM	4148	С	LEU			-0.5		4.450	57.954		24.55	
ATOM	4149	O·	LEU			-0.	760	3.489	58.692		22.92	•
ATOM	4150	N	GLN			-0.9		4.434	56.666		22.71 22.75	
ATOM	4152	CA	GLN			-1.4		3.199	56.016		23.39	
ATOM	4154	CB	GLN			-1.			54.546		23.39	
ATOM	4157	CG	GLN			-3.1		3.902	54.251			
MOTA	4160	CD	GLN			-3.5		3.668	52.779		25.91	•
MOTA	4161		GLN			-2.7		3.480	51.913		28.07	
ATOM	4162		GLN			-4.9		3.668	52.504		31.17	
ATOM	4165	C	GLN			-0.3		2.154	56.082		26.41	
ATOM	4166	Ō	GLN			-0.5		0.993	56.381		23.26	
ATOM	4167	N	CYS			0.9	336	2.576	55.819		22.61	
ATOM	4169	CA	CYS			2.0	779	1.666	55.937		23.37	
ATOM	4171	CB	CYS				377	2.350	55.486		23.62	
ATOM	4174	SG	CYS			3.3		2.714	53.694		23.38	
ATOM	4175	C	CYS				187	1.057	57.353		26.27	
MOTA	4176	0	CYS			2.4		-0.130	57.474		23.48	•
ATOM	4177	N	ASN			1.9		1.856	58.402		22.84	
ATOM	4179	CA	ASN			2.0		1.368	59.776		23.18	
ATOM	4181	CB	ASN				373	2.490	60.821		23.64	
MOTA	4184	CG	ASN				940	3.576	60.740		23.36	
ATOM	4185		ASN				21	3.370	60.189		23.70	
ATOM	4186		ASN			2.6		4.745	61.293		26.52	
ATOM	4189	C	ASN			0.9		0.334	60.019		18.94	
MOTA	4190	0	ASN			1.2		-0.709	60.599		24.56	
MOTA	4191	N	LYS			-0.2		0.633	59.593		24.51 25.29	
ATOM .	4193	CA	LYS			-1.4		-0.308	59.742		26.55	
ATOM	4195	CB	LYS			-2.7		0.280	59.158		27.30	
MOTA	4198 .	CG	LYS			-3.2	245	1.536	59.894		29.04	
ATOM	4201	CD	LYS			-4.7		1.862	59.503		32.61	
ATOM	4204	CE	LYS			-4.8		2.417	58.053	1.00	27.01	
ATOM	4207	NZ	LYS	В	240	-4.3		3.837	57.829	1 00	34.32	
ATOM	4211	С	LYS			-1.0		-1.680	59.104		26.09	
ATOM	4212	0	LYS			-1.4		-2.707	59.653		26.05	
ATOM	4213	N	ARG			-0.3		-1.681	57.975		26.26	
MOTA	4215	CA	ARG			0.0		-2.911	57.288		26.59	
ATOM	4217	СВ	ARG			0.6			55.944			
MOTA	4220	CG	ARG			0.6		-3.619	54.921		27.45 30.60	
ATOM	4223	CD	ARG			1.8		-3.649	54.026		35.87	
MOTA	4226	NE	ARG			2.3		-5.002	53.975		41.15	
ATOM	4228	CZ	ARG			3.5		-5.301	53.511		43.64	
ATOM	4229		ARG	В	241	4.3		-4.361	53.019		43.07	•
ATOM	4232	NH2	ARG	В	241	3.9		-6.562	53.534		46.66	
ATOM	4235	С	ARG			1.0		-3.733	58.111		25.70	
ATOM	4236	Ö	ARG			0.8		-4.944	58.249		26.52	
ATOM	4237	N	SER			2.0		-3.057	58.644		24.82	
ATOM	4239	CA	SER			2.9		-3.599	59.646		24.62	
			Ť		·				-2.040	1.00	44	

ATOM 4255 CG PHE B 243	ATOM ATOM ATOM ATOM ATOM ATOM ATOM	4241 4244 4246 4247 4248 4250 4252	OG C O N CA	SER I SER I SER I SER I PHE I PHE I	B B B B	242 242 242 243 243	3.849 4.828 2.251 2.718 1.179 0.472 -0.588	-2.472 -2.071 -4.249 -5.265 -3.633 -4.161 -3.201	60.199 59.273 60.847 61.345 61.339 62.511 63.095	1.00 1.00 1.00 1.00 1.00 1.00	23.14 24.21 23.74 24.47 25.38		C O C O N C C
ATOM 4258 CE1 PHE B 243													C
ATOM 4266 CD2 PHE B 243	MOTA	4258	CE1	PHE	В	243	-0.501	0.431	64.255	1.00	29.25		С
ATOM 4266 CD2 PHE B 243													C
ATOM 4267 C PHE B 243 -0.211 -5.443 62.070 1.00 25.24 C C ATOM 4268 N SER B 244 -0.878 -5.392 60.916 1.00 25.73 N ATOM 4270 CA SER B 244 -1.553 -6.548 60.280 1.00 26.24 C ATOM 4270 CA SER B 244 -1.553 -6.548 60.280 1.00 26.24 C ATOM 4272 CB SER B 244 -2.224 -6.123 58.967 1.00 26.29 C ATOM 4275 CB SER B 244 -3.539 -5.700 59.225 1.00 24.55 C ATOM 4277 C SER B 244 -0.670 -7.738 59.934 1.00 25.30 C ATOM 4278 C SER B 244 -0.670 -7.738 59.934 1.00 25.30 C ATOM 4278 C SER B 244 -1.139 -8.852 59.904 1.00 26.13 C ATOM 4278 C SER B 244 -1.139 -8.852 59.904 1.00 26.13 C ATOM 4281 CA ASF B 245 0.593 -7.498 59.658 1.00 24.75 N ATOM 4281 CA ASF B 245 0.593 -7.498 59.658 1.00 24.75 N ATOM 4281 CA ASF B 245 1.488 -8.568 59.255 1.00 24.75 C ATOM 4286 CG ASF B 245 1.541 -7.759 56.829 1.00 24.71 C ATOM 4280 CD ASF B 245 1.541 -7.759 56.829 1.00 25.49 C ATOM 4280 CD ASF B 245 1.541 -7.759 56.829 1.00 23.74 C ATOM 4290 C ASF B 245 1.975 -7.013 55.941 1.00 30.97 O ATOM 4290 C ASF B 245 1.975 -7.013 55.941 1.00 30.97 O ATOM 4290 C ASF B 245 2.371 -9.044 60.410 1.00 23.74 C ATOM 4291 N GLN B 246 2.321 -8.354 61.560 1.00 23.74 C ATOM 4291 N GLN B 246 2.321 -8.354 61.560 1.00 23.74 C ATOM 4295 C B GLN B 246 2.321 -8.354 61.560 1.00 23.57 O C ATOM 4295 C B GLN B 246 3.081 -8.802 62.730 1.00 21.91 C C ATOM 4209 C B GLN B 246 3.081 -8.802 62.730 1.00 21.91 C C ATOM 4302 CEI GLN B 246 3.081 -8.802 62.730 1.00 21.91 C C ATOM 4302 CEI GLN B 246 3.629 -7.541 66.413 1.00 18.64 C C ATOM 4303 NEZ GLN B 246 3.629 -7.541 66.332 1.00 22.38 N ATOM 4301 CD GLN B 246 3.629 -7.541 66.332 1.00 22.38 N ATOM 4303 NEZ GLN B 246 3.629 -7.541 66.332 1.00 22.38 N ATOM 4303 NEZ GLN B 246 3.629 -7.541 66.332 1.00 22.38 N ATOM 4303 NEZ GLN B 246 3.629 -7.541 66.332 1.00 22.38 N ATOM 4303 NEZ GLN B 246 3.629 -7.541 66.332 1.00 22.38 N ATOM 4303 NEZ GLN B 246 3.629 -7.541 66.332 1.00 22.38 N ATOM 4304 C C BLN B 246 3.629 -7.541 66.332 1.00 22.38 N ATOM 4304 C C BLN B 246 3.629 -7.541 66.332 1.00 22.33 C C ATOM 4308 C C BLN B 248 4.044 -2.299 -6.458 66.332 1.00 22.3													C
ATOM 4270 CA SER B 244 -0.878 -5.392 60.916 1.00 25.73 N ATOM 4270 CA SER B 244 -1.553 -6.548 60.280 1.00 26.24 C ATOM 4275 CB SER B 244 -2.224 -6.123 58.967 1.00 26.59 C ATOM 4275 CS SER B 244 -0.670 -7.738 59.934 1.00 25.30 C ATOM 4278 C SER B 244 -0.670 -7.738 59.934 1.00 25.30 C ATOM 4278 C SER B 244 -1.139 -8.852 59.904 1.00 25.30 C ATOM 4279 N ASF B 245 0.593 -7.498 59.658 1.00 24.75 N ATOM 4281 CA ASF B 245 1.488 -8.568 59.255 1.00 24.75 N ATOM 4283 CB ASF B 245 1.488 -8.568 59.255 1.00 24.71 C ATOM 4286 CG ASF B 245 1.541 -7.759 56.829 1.00 24.71 C ATOM 4287 OD ASF B 245 1.541 -7.759 56.829 1.00 24.71 C ATOM 4287 ODI ASF B 245 1.541 -7.759 56.829 1.00 25.49 C ATOM 4288 CB ASF B 245 1.541 -7.759 56.829 1.00 25.49 C ATOM 4289 C ASF B 245 1.975 -7.013 55.941 1.00 30.97 O ATOM 4289 C ASF B 245 1.975 -7.013 55.941 1.00 30.97 O ATOM 4290 O ASF B 245 3.103 -10.035 60.24 0.100 23.774 C ATOM 4291 N GLN B 246 3.081 -8.802 62.730 1.00 23.57 O ATOM 4293 CA GLN B 246 3.081 -8.802 62.730 1.00 21.91 C ATOM 4295 CB GLN B 246 3.629 -7.541 66.413 1.00 19.68 C ATOM 4301 CD GLN B 246 3.629 -7.541 66.413 1.00 19.68 C ATOM 4301 CD GLN B 246 3.629 -7.541 66.413 1.00 19.68 C ATOM 4301 CD GLN B 246 3.629 -7.541 66.413 1.00 19.68 C ATOM 4303 NB2 GLN B 246 3.629 -7.541 66.413 1.00 19.68 C ATOM 4304 CB GLN B 246 3.629 -7.541 66.413 1.00 19.68 C ATOM 4307 C GLN B 246 3.629 -7.541 66.413 1.00 19.68 C ATOM 4308 N PRO B 247 1.100.755 63.329 1.00 22.39 O ATOM 4308 N PRO B 247 1.100.755 63.329 1.00 22.39 O ATOM 4308 N PRO B 247 1.100.10.55 66.329 1.00 22.39 O ATOM 4308 N PRO B 247 1.100.755 63.329 1.00 22.39 O ATOM 4301 CB CRN B 248 2.2555 -13.502 60.031 1.00 22.98 O ATOM 4311 CB PRO B 247 1.100.10.23 63.451 1.00 22.68 C ATOM 4321 C PRO B 247 1.409 -10.555 65.18 1.00 22.98 O ATOM 4332 C D LYS B 248 0.664 -12.266 65.816 1.00 22.98 O ATOM 4333 C C D RN B 248 2.2555 -13.502 60.031 1.00 23.35 C ATOM 4334 C C LYS B 248 0.664 -12.266 65.011 1.00 23.57 C ATOM 4336 C C LYS B 248 0.664 -12.266 65.011 1.00 23.55 C ATOM 4343 O LYS B 248 0.664 -12.													С
ATOM 4270 CB SER B 244 -1.553 -6.548 60.280 1.00 26.24 C ATOM 4272 CB SER B 244 -2.224 -6.123 58.967 1.00 26.59 C ATOM 4277 C SER B 244 -3.539 -5.700 59.225 1.00 28.45 O ATOM 4278 C SER B 244 -0.670 -7.738 59.934 1.00 25.30 C ATOM 4278 C SER B 244 -1.139 -8.852 59.04 1.00 26.13 O ATOM 4278 N ASP B 245 0.593 -7.498 59.658 1.00 24.75 N ATOM 4281 CA ASP B 245 1.488 -8.568 59.255 1.00 24.52 C ATOM 4281 CA ASP B 245 1.488 -8.568 59.255 1.00 24.71 C ATOM 4281 CA ASP B 245 1.541 -7.759 56.829 1.00 24.71 C ATOM 4286 CG ASP B 245 1.541 -7.759 56.829 1.00 25.49 C ATOM 4287 OD1 ASP B 245 1.541 -7.759 56.829 1.00 25.49 C ATOM 4288 OD2 ASP B 245 1.975 -7.013 55.941 1.00 30.97 O ATOM 4289 C ASP B 245 3.103 -10.035 60.246 1.00 23.74 C ATOM 4289 C ASP B 245 3.103 -10.035 60.246 1.00 23.77 O ATOM 4291 N GLN B 246 3.081 -8.802 62.730 1.00 21.50 C ATOM 4293 CA GLN B 246 3.081 -8.802 62.730 1.00 21.50 C ATOM 4295 CB GLN B 246 3.515 -8.497 65.234 1.00 19.68 C ATOM 4303 NE2 GLN B 246 3.629 -7.541 66.413 1.00 19.68 C ATOM 4303 NE2 GLN B 246 3.629 -7.541 66.413 1.00 19.68 C ATOM 4303 NE2 GLN B 246 3.629 -7.541 66.312 1.00 15.04 O ATOM 4306 C GLN B 246 3.629 -7.541 66.312 1.00 15.04 O ATOM 4307 O GLN B 246 3.629 -7.541 66.312 1.00 15.04 O ATOM 4308 N PRO B 247 1.110 -12.056 63.298 1.00 22.33 C ATOM 4301 CD END 247 1.110 -12.056 63.298 1.00 22.33 C ATOM 4301 CD END 247 1.110 -12.056 63.298 1.00 22.33 C ATOM 4311 CB PRO B 247 1.149 -11.053 63.322 1.00 22.33 C ATOM 4311 CB PRO B 247 1.149 -11.053 63.451 1.00 22.68 C ATOM 4311 CB PRO B 247 1.149 -14.277 62.506 1.00 22.39 O ATOM 4320 C END B 248 2.275 -1.3502 60.031 1.00 23.34 N ATOM 4321 C PRO B 247 1.149 -14.277 62.506 1.00 22.39 O ATOM 4331 C D PRO B 247 1.449 -14.277 62.506 1.00 22.39 O ATOM 4332 C D LYS B 248 2.555 -13.502 60.031 1.00 23.34 N ATOM 4320 C PRO B 247 1.449 -14.277 62.506 1.00 22.39 O ATOM 4333 C C LYS B 248 -0.664 -12.266 65.866 1.00 23.34 N ATOM 4321 C C PRO B 247 1.449 -14.277 62.506 1.00 22.35 C ATOM 4333 C C LYS B 248 -0.664 -12.266 65.806 1.00 23.37 C ATOM 4343 C C L													
ATOM 4275 OG SER B 244 -2.224 -6.123 58.967 1.00 26.59 C ATOM 4275 OG SER B 244 -0.670 -7.738 59.934 1.00 28.30 C ATOM 4278 O SER B 244 -1.139 -8.852 59.904 1.00 26.13 O ATOM 4279 N ASP B 245 0.593 -7.498 59.658 1.00 24.75 N ATOM 4281 CA ASP B 245 1.488 -8.568 59.255 1.00 24.52 C ATOM 4283 CB ASP B 245 1.488 -8.568 59.255 1.00 24.52 C ATOM 4286 CG ASP B 245 1.541 -7.759 56.829 1.00 24.71 C ATOM 4287 ODI ASP B 245 1.541 -7.759 56.829 1.00 28.15 O ATOM 4288 CD ASP B 245 1.541 -7.759 56.829 1.00 28.15 O ATOM 4289 C ASP B 245 1.975 -7.013 55.941 1.00 30.97 O ATOM 4289 C ASP B 245 3.103 -10.035 60.24 0.00 23.77 O ATOM 4289 C ASP B 245 3.103 -10.035 60.24 0.00 23.77 O ATOM 4290 C ASP B 245 3.103 -10.035 60.246 1.00 23.77 O ATOM 4291 N GLN B 246 3.081 -8.802 62.730 1.00 22.64 N N ATOM 4293 CA GLN B 246 3.081 -8.802 62.730 1.00 21.91 C ATOM 4295 CB GLN B 246 3.081 -8.802 62.730 1.00 21.91 C ATOM 4296 CG GLN B 246 3.629 -7.541 66.413 1.00 19.68 C ATOM 4298 CG GLN B 246 3.629 -7.541 66.413 1.00 19.68 C ATOM 4301 CD GLN B 246 3.629 -7.541 66.413 1.00 19.68 C ATOM 4303 NEZ GLN B 246 3.629 -7.541 66.413 1.00 19.68 C ATOM 4303 NEZ GLN B 246 3.629 -7.541 66.413 1.00 15.04 O ATOM 4303 NEZ GLN B 246 3.629 -7.541 66.413 1.00 15.04 O ATOM 4308 N PRO B 247 1.110 -12.056 63.292 1.00 22.39 N ATOM 4309 CA PRO B 247 1.480 -10.653 63.072 1.00 22.38 N ATOM 4301 CB GLN B 246 3.625 -7.972 67.550 1.00 15.04 O ATOM 4301 CB CRN B 247 1.110 -12.056 63.298 1.00 22.35 C ATOM 4311 CB PRO B 247 1.110 -12.056 63.298 1.00 22.35 C ATOM 4321 O PRO B 247 1.120.17 63.286 1.00 22.39 O ATOM 4331 CB PRO B 247 1.110 -12.056 63.073 1.00 22.39 O ATOM 4332 CB LYS B 248 2.555 -13.502 60.031 1.00 22.39 O ATOM 4331 CB PRO B 247 1.149 -14.277 62.506 1.00 22.39 O ATOM 4320 C C PRO B 247 1.149 -14.277 62.506 1.00 22.35 C ATOM 4332 CB LYS B 248 0.825 -12.666 58.302 1.00 22.35 C ATOM 4332 CB LYS B 248 0.825 -12.666 58.302 1.00 22.35 C ATOM 4333 CB LYS B 248 0.825 -12.666 58.302 1.00 22.35 C ATOM 4334 CB LYS B 248 0.825 -12.666 58.302 1.00 23.57 C ATOM 4335 CB LYS B 2													
ATOM 4275 CG SER B 244													
ATOM 4278 N ASP B 2445												•	
ATOM 4291 CA ASP B 245													
ATOM 4283 CB ASP B 245													
ATOM 4286 CG ASP B 245													
ATOM 4286 CG ASP B 245 1.541 -7.759 56.829 1.00 25.49 C ATOM 4288 OD1 ASP B 245 1.975 -7.013 55.941 1.00 30.97 O ATOM 4288 OD2 ASP B 245 1.975 -7.013 55.941 1.00 30.97 O ATOM 4289 C ASP B 245 2.371 -9.044 60.410 1.00 23.74 C ATOM 4290 C ASP B 245 3.103 -10.035 60.246 1.00 23.57 O ATOM 4291 N GLN B 246 2.321 -8.354 61.560 1.00 22.64 N ATOM 4293 CA GLN B 246 3.081 -8.802 62.730 1.00 21.91 C ATOM 4295 CB GLN B 246 3.081 -8.802 62.730 1.00 21.91 C ATOM 4296 CG GLN B 246 3.515 -8.497 63.958 1.00 21.50 C ATOM 4301 CD GLN B 246 3.515 -8.497 65.234 1.00 19.68 C ATOM 4302 OE1 GLN B 246 3.629 -7.541 66.413 1.00 18.64 C ATOM 4303 NE2 GLN B 246 3.223 -7.972 67.550 1.00 15.04 O ATOM 4303 NE2 GLN B 246 3.123 -7.972 67.550 1.00 15.04 O ATOM 4308 C GLN B 246 3.629 -7.541 66.413 1.00 18.09 N ATOM 4308 N PRO B 247 1.102 63.322 1.00 22.39 O ATOM 4308 N PRO B 247 1.100 -12.056 63.298 1.00 22.33 C ATOM 4311 CB PRO B 247 -0.801 -10.623 63.322 1.00 22.33 C ATOM 4311 CG PRO B 247 -0.801 -10.623 63.298 1.00 22.35 C ATOM 4311 CG PRO B 247 0.283 -9.814 62.878 1.00 22.40 C ATOM 4321 O PRO B 247 1.582 -13.077 62.254 1.00 22.35 C ATOM 4321 O PRO B 247 1.582 -13.077 62.254 1.00 22.36 N ATOM 4322 N LYS B 248 2.051 -12.626 61.103 1.00 23.24 N ATOM 4320 C PRO B 247 1.582 -13.077 62.254 1.00 22.36 O ATOM 4321 O PRO B 247 1.582 -13.077 62.254 1.00 22.36 C ATOM 4322 C LYS B 248 2.051 -12.626 61.103 1.00 23.24 N ATOM 4324 CA LYS B 248 2.051 -12.626 65.10 1.00 23.24 N ATOM 4325 CD LYS B 248 2.051 -12.626 65.10 1.00 23.24 N ATOM 4332 CD LYS B 248 2.051 -13.650 60.11 1.00 23.57 C ATOM 4334 N VAL B 249 6.664 -12.261 56.816 1.00 29.48 N ATOM 4343 O LYS B 248 4.521 -13.075 60.251 1.00 22.55 C ATOM 4344 N VAL B 249 6.834 -11.005 60.073 1.00 23.37 C ATOM 4344 N VAL B 249 6.654 -12.060 62.013 1.00 23.37 C ATOM 4344 N VAL B 249 6.654 -10.705 60.073 1.00 23.37 C ATOM 4345 CG VAL B 249 6.6554 -10.705 60.073 1.00 23.37 C ATOM 4358 CC VAL B 249 6.6554 -10.705 60.073 1.00 23.33 C													
ATOM 4288 OD2 ASP B 245				ASP	В	245		-7.759	56.829				С
ATOM 4289 C ASP B 245 2.371 -9.044 60.410 1.00 23.74 C ATOM 4291 N GLN B 246 3.103 -10.035 60.246 1.00 23.57 O ATOM 4291 N GLN B 246 2.321 -8.354 61.560 1.00 22.64 N ATOM 4293 CA GLN B 246 3.081 -8.802 63.730 1.00 21.91 C ATOM 4298 CG GLN B 246 3.081 -8.802 63.758 1.00 21.91 C ATOM 4298 CG GLN B 246 3.515 -8.497 65.234 1.00 19.68 C ATOM 4301 CD GLN B 246 3.529 -7.541 66.413 1.00 18.64 C ATOM 4302 OE1 GLN B 246 3.629 -7.541 66.413 1.00 18.64 C ATOM 4303 NE2 GLN B 246 3.123 -7.972 67.550 1.00 18.09 N ATOM 4303 NE2 GLN B 246 3.123 -7.972 67.550 1.00 18.09 N ATOM 4306 C GLN B 246 2.759 -10.257 63.072 1.00 22.12 C ATOM 4307 O GLN B 246 3.675 -11.022 63.322 1.00 22.39 O ATOM 4308 N PRO B 247 1.480 -10.653 63.073 1.00 22.38 N ATOM 4309 CA PRO B 247 1.110 -12.056 63.298 1.00 22.33 C ATOM 4311 CB PRO B 247 -0.421 -12.017 63.286 1.00 22.33 C ATOM 4311 CB PRO B 247 -0.801 -10.623 63.451 1.00 22.68 C ATOM 4320 C PRO B 247 1.582 -13.077 62.254 1.00 22.39 O ATOM 4321 O PRO B 247 1.582 -13.077 62.254 1.00 22.99 O ATOM 4322 N LYS B 248 2.555 -13.502 60.031 1.00 22.98 O ATOM 4326 CB LYS B 248 2.555 -13.502 60.031 1.00 23.63 C ATOM 4326 CB LYS B 248 2.555 -13.502 60.031 1.00 23.63 C ATOM 4338 NZ LYS B 248 0.825 -12.814 58.674 1.00 24.19 C ATOM 4338 NZ LYS B 248 0.862 -12.666 58.802 1.00 22.39 C ATOM 4336 CB LYS B 248 0.862 -12.666 58.802 1.00 25.17 C ATOM 4337 CD LYS B 248 0.664 -12.261 56.816 1.00 29.48 N ATOM 4328 CC LYS B 248 0.862 -12.666 58.802 1.00 25.17 C ATOM 4338 NZ LYS B 248 0.862 -12.666 58.801 1.00 29.48 N ATOM 4338 NZ LYS B 248 0.862 -12.666 58.802 1.00 23.57 C ATOM 4344 N VAL B 249 4.766 -13.095 60.996 1.00 24.05 N ATOM 4344 N VAL B 249 6.834 -11.902 61.761 1.00 24.05 N ATOM 4344 CG VAL B 249 6.834 -11.902 61.761 1.00 23.394 C ATOM 4345 CG VAL B 249 6.834 -11.902 61.761 1.00 24.05 N ATOM 4344 CG VAL B 249 6.834 -11.902 61.761 1.00 23.377 C ATOM 4345 CG VAL B 249 6.572 -14.385 60.003 1.00 23.37 C													
ATOM 4290 O ASP B 245 3.103 -10.035 60.246 1.00 23.57 O ATOM 4291 N GLN B 246 2.321 -8.354 61.560 1.00 22.64 N ATOM 4293 CA GLN B 246 3.081 -8.802 62.730 1.00 21.91 C ATOM 4295 CB GLN B 246 2.906 -7.887 63.958 1.00 21.50 C ATOM 4298 CG GLN B 246 3.515 -8.497 65.234 1.00 19.68 C ATOM 4301 CD GLN B 246 3.629 -7.541 66.413 1.00 18.64 C ATOM 4302 OE1 GLN B 246 3.629 -7.541 66.413 1.00 18.04 O ATOM 4303 NE2 GLN B 246 3.232 -7.972 67.550 1.00 15.04 O ATOM 4303 NE2 GLN B 246 3.629 -7.541 66.312 1.00 15.04 O ATOM 4303 NE2 GLN B 246 3.629 -7.972 67.550 1.00 18.09 N ATOM 4306 C GLN B 246 3.675 -11.022 63.322 1.00 22.12 C ATOM 4307 O GLN B 246 3.675 -11.022 63.322 1.00 22.33 O ATOM 4308 N PRO B 247 1.480 -10.653 63.073 1.00 22.33 C ATOM 4311 CB PRO B 247 1.110 -12.056 63.298 1.00 22.33 C ATOM 4311 CB PRO B 247 -0.421 -12.017 63.286 1.00 22.35 C ATOM 4314 CG PRO B 247 -0.421 -12.017 63.286 1.00 22.35 C ATOM 4317 CD PRO B 247 1.582 -13.077 62.254 1.00 22.40 C ATOM 4320 C PRO B 247 1.582 -13.077 62.254 1.00 22.55 C ATOM 4321 O PRO B 247 1.582 -13.077 62.254 1.00 22.55 C ATOM 4322 N LYS B 248 2.061 -12.626 61.103 1.00 23.244 N ATOM 4322 C LYS B 248 2.061 -12.626 61.103 1.00 23.63 C ATOM 4322 C LYS B 248 2.555 -13.502 60.031 1.00 23.63 C ATOM 4322 C LYS B 248 2.555 -13.502 60.031 1.00 23.63 C ATOM 4322 C LYS B 248 2.555 -13.502 60.031 1.00 23.63 C ATOM 4322 C LYS B 248 0.825 -12.666 58.302 1.00 24.19 C ATOM 4323 C C LYS B 248 0.825 -12.666 58.302 1.00 25.17 C ATOM 4332 C LYS B 248 0.825 -12.666 58.302 1.00 25.57 C ATOM 4333 NZ LYS B 248 0.825 -12.666 58.302 1.00 23.57 C ATOM 4344 N VAL B 249 4.766 -13.095 60.996 1.00 23.57 C ATOM 4344 N VAL B 249 6.222 -13.193 61.132 1.00 23.37 C ATOM 4348 CB VAL B 249 6.824 -10.700 62.013 1.00 23.37 C ATOM 4348 CB VAL B 249 6.824 -10.700 62.013 1.00 23.37 C ATOM 4348 CB VAL B 249 6.834 -11.902 61.761 1.00 24.05 C ATOM 4348 CB VAL B 249 6.834 -11.902 61.761 1.00 24.05 C ATOM 4358 CC VAL B 249 6.552 -11.4385 62.003 1.00 23.37 C ATOM 4358 CC VAL B 249 6.552 -11.4385 62.003 1.00 23.33 C													
ATOM 4291 N GLN B 246													
ATOM 4293 CA GLN B 246 3.081 -8.802 62.730 1.00 21.91 C ATOM 4295 CB GLN B 246 2.906 -7.887 63.958 1.00 21.50 C ATOM 4298 CG GLN B 246 3.515 -8.497 65.234 1.00 19.68 C ATOM 4301 CD GLN B 246 3.629 -7.541 66.413 1.00 18.64 C ATOM 4302 OE1 GLN B 246 4.209 -6.458 66.312 1.00 15.04 O ATOM 4303 NE2 GLN B 246 3.123 -7.972 67.550 1.00 18.09 N ATOM 4306 C GLN B 246 2.759 -10.257 63.072 1.00 22.12 C ATOM 4307 O GLN B 246 3.675 -11.022 63.322 1.00 22.39 O ATOM 4308 N PRO B 247 1.480 -10.653 63.073 1.00 22.38 N ATOM 4309 CA PRO B 247 1.110 -12.056 63.298 1.00 22.33 C ATOM 4311 CB PRO B 247 -0.421 -12.017 63.286 1.00 22.35 C ATOM 4314 CG PRO B 247 -0.801 -10.623 63.451 1.00 22.68 C ATOM 4320 C PRO B 247 1.582 -13.077 62.254 1.00 22.98 O ATOM 4321 O PRO B 247 1.582 -13.077 62.254 1.00 22.55 C ATOM 4321 O PRO B 247 1.582 -13.077 62.254 1.00 22.55 C ATOM 4322 N LYS B 248 2.061 -12.626 61.103 1.00 23.24 N ATOM 4322 N LYS B 248 2.555 -13.502 60.031 1.00 23.24 N ATOM 4326 CB LYS B 248 2.555 -13.502 60.031 1.00 23.63 C ATOM 4326 CB LYS B 248 2.325 -12.814 58.674 1.00 24.19 C ATOM 4338 NZ LYS B 248 0.825 -12.666 58.302 1.00 25.17 C ATOM 4338 NZ LYS B 248 -0.704 -11.655 65.518 1.00 29.48 N ATOM 4343 O LYS B 248 4.521 -14.818 59.538 1.00 22.55 O ATOM 4344 N VAL B 249 6.222 -13.193 61.132 1.00 23.94 C ATOM 4344 N VAL B 249 6.222 -13.193 61.132 1.00 23.94 C ATOM 4348 CB VAL B 249 6.222 -13.193 61.132 1.00 23.94 C ATOM 4348 CB VAL B 249 6.222 -13.193 61.076 1.00 23.94 C ATOM 4348 CB VAL B 249 6.222 -13.193 61.076 1.00 23.94 C ATOM 4348 CB VAL B 249 6.554 -10.705 60.878 1.00 23.82 C ATOM 4350 CG1 VAL B 249 6.554 -10.705 60.878 1.00 23.82 C													
ATOM 4301 CD GLN B 246		4293	CA	GLN	В	246	3.081	-8.802	62.730				С
ATOM 4301 CD GLN B 246													
ATOM 4302 OE1 GLN B 246													C
ATOM 4303 NE2 GLN B 246 3.123 -7.972 67.550 1.00 18.09 N ATOM 4306 C GLN B 246 2.759 -10.257 63.072 1.00 22.12 C ATOM 4307 O GLN B 246 3.675 -11.022 63.322 1.00 22.39 O ATOM 4308 N PRO B 247 1.480 -10.653 63.073 1.00 22.38 N ATOM 4309 CA PRO B 247 1.110 -12.056 63.298 1.00 22.33 C ATOM 4311 CB PRO B 247 -0.421 -12.017 63.286 1.00 22.33 C ATOM 4314 CG PRO B 247 -0.801 -10.623 63.451 1.00 22.68 C ATOM 4317 CD PRO B 247 0.283 -9.814 62.878 1.00 22.40 C ATOM 4320 C PRO B 247 1.582 -13.077 62.254 1.00 22.55 C ATOM 4321 O PRO B 247 1.582 -13.077 62.254 1.00 22.98 O ATOM 4321 O PRO B 247 1.449 -14.277 62.506 1.00 22.98 O ATOM 4322 N LYS B 248 2.061 -12.626 61.103 1.00 23.24 N ATOM 4324 CA LYS B 248 2.555 -13.502 60.031 1.00 23.63 C ATOM 4326 CB LYS B 248 2.325 -12.814 58.674 1.00 24.19 C ATOM 4332 CD LYS B 248 0.825 -12.666 58.302 1.00 25.17 C ATOM 4332 CD LYS B 248 0.825 -12.666 58.302 1.00 27.89 C ATOM 4338 NZ LYS B 248 -0.704 -11.655 56.518 1.00 29.48 N ATOM 4338 NZ LYS B 248 4.044 -13.869 60.171 1.00 23.57 C ATOM 4344 N VAL B 249 6.222 -13.193 61.132 1.00 23.94 C ATOM 4348 CB VAL B 249 6.222 -13.193 61.132 1.00 23.94 C ATOM 4348 CB VAL B 249 6.222 -13.193 61.132 1.00 23.37 C ATOM 4355 C VAL B 249 6.572 -14.385 62.003 1.00 23.37 C ATOM 4358 C VAL B 249 6.572 -14.385 62.003 1.00 24.33 C													
ATOM 4307 O GLN B 246													
ATOM 4308 N PRO B 247			С										
ATOM 4309 CA PRO B 247													
ATOM 4311 CB PRO B 247													
ATOM 4314 CG PRO B 247													
ATOM 4317 CD PRO B 247							i de la companya de						С
ATOM 4321 O PRO B 247													С
ATOM 4322 N LYS B 248													
ATOM 4324 CA LYS B 248													
ATOM 4326 CB LYS B 248													
ATOM 4332 CD LYS B 248							2.325	-12.814	58.674				С
ATOM 4335 CE LYS B 248													
ATOM 4338 NZ LYS B 248													
ATOM 4342 C LYS B 248													
ATOM 4343 O LYS B 248 4.521 -14.818 59.538 1.00 22.55 O ATOM 4344 N VAL B 249 4.766 -13.095 60.996 1.00 24.05 N ATOM 4346 CA VAL B 249 6.222 -13.193 61.132 1.00 23.94 C ATOM 4348 CB VAL B 249 6.834 -11.902 61.761 1.00 24.05 C ATOM 4350 CG1 VAL B 249 8.364 -12.060 62.013 1.00 23.37 C ATOM 4354 CG2 VAL B 249 6.554 -10.705 60.878 1.00 23.82 C ATOM 4358 C VAL B 249 6.572 -14.385 62.003 1.00 24.33 C													
ATOM 4346 CA VAL B 249 6.222 -13.193 61.132 1.00 23.94 C ATOM 4348 CB VAL B 249 6.834 -11.902 61.761 1.00 24.05 C ATOM 4350 CG1 VAL B 249 8.364 -12.060 62.013 1.00 23.37 C ATOM 4354 CG2 VAL B 249 6.554 -10.705 60.878 1.00 23.82 C ATOM 4358 C VAL B 249 6.572 -14.385 62.003 1.00 24.33 C			0	LYS	В	248			59.538	1.00	22.55		
ATOM 4348 CB VAL B 249 6.834 -11.902 61.761 1.00 24.05 C ATOM 4350 CG1 VAL B 249 8.364 -12.060 62.013 1.00 23.37 C ATOM 4354 CG2 VAL B 249 6.554 -10.705 60.878 1.00 23.82 C ATOM 4358 C VAL B 249 6.572 -14.385 62.003 1.00 24.33 C													
ATOM 4350 CG1 VAL B 249 8.364 -12.060 62.013 1.00 23.37 C ATOM 4354 CG2 VAL B 249 6.554 -10.705 60.878 1.00 23.82 C ATOM 4358 C VAL B 249 6.572 -14.385 62.003 1.00 24.33 C													
ATOM 4354 CG2 VAL B 249 6.554 -10.705 60.878 1.00 23.82 C ATOM 4358 C VAL B 249 6.572 -14.385 62.003 1.00 24.33 C													
ATOM 4358 C VAL B 249 6.572 -14.385 62.003 1.00 24.33 C													
ATOM 4359 O VAL B 249 5.925 -14.623 63.033 1.00 24.36 O	MOTA	4358	С	VAL	В	249	6.572	2 -14.385	62.003	1.00	24.33		С
	ATOM	4359	0	VAL	В	249	5.925	-14.623	63.033	1.00	24.36		0

ATOM	4360	N	THR			7.584	-15.135	61.555	1.00	24.50		N
ATOM	4362	CA			250	8.104	-16.291	62.274		24.40		C
ATOM ATOM	4364 4366	CB OG1			250	9.238	-16.936	61.466		24.53		. č
ATOM	4368	CG2	THR		250	8.783	-17.193	60.132		25.59		Ō
ATOM.	4372	C	THR				-18.319 -15.806	62.011		23.78		. C
ATOM	4373	ŏ	THR	B	250	9 570	-15.806 $-15.004$	63.616		24.13		C
MOTA	4374	N	PRO				-16.266	63.650 64.712		23.96		0
MOTA	4375	CA	PRO			8.389	-15.781	66.054		23.65 23.24		N
ATOM	4377	CB	PRO			7.638	-16.744	66.998	1 00	23.24		C
ATOM	4380	CG	PRO			6.496	-17.284	66.199		23.40	,	C
ATOM	4383	CD	PRO			6.946	-17.275	64.765		23.90		, c
ATOM ATOM	4386	С	PRO			9.889	-15.829	66.350	1.00	22.61		· c
ATOM	4387 4388	O N	PRO			10.600	-16.720	65.874	1.00	22.38		Ō
ATOM	4390	N CA	TRP TRP			10.347	-14.866	67.135		22.13		N
ATOM	4392	CB	TRP			11.705	-14.860 -13.608	67.651		22.14		С
ATOM	4395	CG	TRP			13.280	-13.808 -13.365	68.505 69.064		21.80	·	C
MOTA	4396	CD1	TRP			13.701	-13.617	70.338		19.35 16.85	•	C
ATOM	4398	NE1				15.005	-13.221	70.336		14.85	:	C
MOTA	4400	CE2	TRP			15.451	-12.683	69.319		14.93		. · · · ·
ATOM.	4401	CD2				14.390	-12.753	68.395	1.00	16.95		c
MOTA	4402	CE3	TRP			14.595	-12.244	67,100	1.00	16.75	•	č
ATOM ATOM	4404 4406	CZ3	TRP				-11.734	66.770	1.00	13.87		č
ATOM	4408	CH2 CZ2	TRP TRP			16.863	-11.685	67.712	1.00	13.95	•	C
ATOM	4410	C	TRP			10.092	-12.150 -16.099	68.991		13.78		_ C
ATOM	4411	ŏ	TRP				-16.473	68.503		23.31		C
ATOM	4412	N	PRO			13.053	-16.756	69.256 68.383		23.18		0
MOTA	4413	CA	PRO			13.362	-17.882	69.266		24.63 25.77		N
ATOM	4415	CB	PRO	В	253	14.642	-18.475	68.665		25.66		N C C
ATOM	4418	CG	PRO			15.268	-17.362	67.947		25.34		C
ATOM	4421	CD	PRO			14.138	-16.502	67.421		24.81		C
ATOM ATOM	4424	C	PRO			13.591	-17.385	70.693	1.00	26.95		č
ATOM	4425 4426	O N	PRO			14.543	-16.622	70.941		27.00		Ō
ATOM	4428	CA	LEU LEU				-17.746 -17.553	71.581		28.19		N
ATOM	4430	CB	LEU			11 512	-17.075	73.013		29.17		С
MOTA	4433	CG	LEU			11.083	-15.687	73.660 ⁻ 73.198		29.19 30.29		C
MOTA	4435		LEU	В	254	9.836	-15.774	72.315		30.29		C C
ATOM	4439	CD2	LEU				-14.748	74.388	1.00	31.32		C
ATOM	4443	C	LEU			13.120	-18.933	73.450		29.93		C
ATOM ATOM	4444	0	LEU			12.266	-19.616	74.003		30.33		ŏ
ATOM	4445 4447	N CA	GLY				-19.372	73.113		31.10		N
ATOM	4450	CA	GLY GLY			14./42	-20.728	73.390		32.10		C
ATOM	4451	Ö	GLY				-20.662 -19.558	74.568		33.02		C
MOTA	4452	N	ALA				-21.821	75.026 75.052		33.20		0
ATOM	4454	CA	ALA			17.270	-21.843	75.052		33.82		N
MOTA	4456	CB	ALA			17.765	-23.266	76.194		34.52 34.47		C
ATOM	4460	С	ALA	В	256		-20.942	75.423		35.19		. C
ATOM	4461	0	ALA	В	256	19.374	-20.677	76.153		35.52		Ö
ATOM	4462	N	ASP	В	257	18.295	-20.484	74.163		35.55		N
ATOM ATOM	4464	CA	ASP	В	257	19.240	-19.535	73.568	1.00	36.08		Ċ
ATOM	4466 4469	CB CG	ASP			19.051	-18.129	74.211	1.00	36.12		С
ATOM	4470		ASP ASP	D D	43 / 257	20.329	-17.281	74.251		36.27		С
ATOM	4471	OD2	ASP	В	257	20.345 21 155	-16.443 -17.350	73.345		35.49		0
MOTA	4472	C	ASP	В	257	20.634	-20.154	75.190 73.750		36.08		0
MOTA	4473	0	ASP			21.530	-19.540	74.339		36.42 36.88		C
MOTA	4474	N	PRO				-21.387	73.252		36.48		. И
		•								22.40		. 14

ATOM 4475 CA PRO B 258 21.499 -22.221 73.671 1.00 36.39 C C ATOM 4480 CG PRO B 258 20.159 -23.661 73.344 1.00 36.32 C ATOM 4480 CD PRO B 258 20.002 -22.072 72.228 1.00 36.58 C ATOM 4486 C PRO B 258 20.002 -22.072 72.228 1.00 36.58 C ATOM 4486 C PRO B 258 23.279 -21.888 72.959 1.00 36.52 C ATOM 4486 N PRO B 258 23.279 -21.888 72.959 1.00 36.52 C ATOM 4480 N PRO B 258 23.279 -21.888 72.959 1.00 36.50 N PRO M 4480 N PRO B 258 24.207 -22.713 72.388 1.00 36.30 N PRO M 4480 N PRO B 258 24.207 -22.713 72.389 1.00 36.30 N PRO M 4480 N PRO B 258 24.207 -22.713 72.389 1.00 36.30 N PRO M 4480 N PRO B 258 25.25 10.00 10.00 N PRO M 4480 N PRO B 259 24.31 -20.221 77.388 1.00 35.69 N PRO M 4495 N PRO M N PRO M 4495 N PRO M N PRO M M 4495 N PRO M N N N N N N N N N N N N N N N N N N	ATOM	4475	CA	PRO E	a 1	258	21 056	_22 221	73.671	1 00	26 20	_
ATOM 4480 CC PRO B 258												
ATOM 4483 CD PRO B 258												
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ATOM 4499 CD GLN B 259 25.495 -19.144 74.896 1.00 35.62 C ATOM 4500 NE2 GLN B 259 25.799 -18.162 75.729 1.00 35.86 N ATOM 4500 NE2 GLN B 259 25.799 -18.162 75.729 1.00 35.86 N ATOM 4501 O GLN B 259 24.842 -21.283 70.497 1.00 34.89 C ATOM 4505 N SER B 260 23.791 -21.640 69.762 1.00 35.10 O ATOM 4505 N SER B 260 23.791 -21.640 69.762 1.00 35.10 O ATOM 4507 CA SER B 260 23.791 -21.640 69.762 1.00 32.46 C ATOM 4509 CB SER B 260 22.708 -23.628 68.893 1.00 32.56 C ATOM 4512 OG SER B 260 22.708 -23.628 68.893 1.00 32.56 C ATOM 4514 C SER B 260 22.708 -23.628 68.893 1.00 32.56 C ATOM 4514 C SER B 260 23.749 -20.759 67.309 1.00 30.83 ATOM 4514 C SER B 260 23.749 -20.759 67.309 1.00 30.83 ATOM 4516 N ALA B 261 24.237 -22.540 66.329 1.00 30.11 N ATOM 4516 C ALA B 261 24.237 -22.540 66.329 1.00 30.11 N ATOM 4518 C ALA B 261 24.208 -22.016 64.972 1.00 29.32 C ATOM 4520 C B ALA B 261 22.770 -21.897 64.443 1.00 29.26 C ATOM 4524 C ALA B 261 22.479 -21.897 64.443 1.00 29.26 C ATOM 4524 C ALA B 261 22.479 -21.897 64.443 1.00 29.26 C ATOM 4526 N ASF B 262 21.898 -22.778 64.918 1.00 29.26 C ATOM 4525 O ALA B 261 22.459 -10.18 63.645 1.00 29.26 C ATOM 4520 C B ALA B 261 22.459 -10.18 63.645 1.00 29.26 C ATOM 4520 N ASF B 262 21.898 -22.778 64.918 1.00 27.37 N ATOM 4530 CB ASF B 262 19.898 -22.778 64.918 1.00 27.37 N ATOM 4530 CB ASF B 262 19.898 -22.778 64.918 1.00 27.37 N ATOM 4530 CB ASF B 262 19.898 -22.778 64.919 1.00 29.27 C C ATOM 4530 CB ASF B 262 19.898 -22.778 64.919 1.00 29.79 O ATOM 4530 CB ASF B 262 19.898 -22.778 64.919 1.00 29.79 O ATOM 4530 CB ASF B 262 19.899 -22.778 64.919 1.00 29.79 O ATOM 4530 CB ASF B 262 19.899 -22.778 64.919 1.00 29.79 O ATOM 4530 CB ASF B 262 19.899 -22.778 64.919 1.00 29.79 O ATOM 4530 CB ASF B 262 19.899 -22.778 64.919 1.00 29.79 O ATOM 4530 CB ASF B 262 19.899 -22.778 64.919 1.00 29.79 O ATOM 4530 CB ASF B 262 19.899 -22.778 64.919 1.00 29.79 O ATOM 4530 CB ASF B 262 19.899 -22.778 64.919 1.00 29.79 O ATOM 4530 CB ASF B 262 19.899 -22.778 64.919 1.00 29.79 O ATOM 4530 CB ASF B 262 19.899	MOTA	4495	CG	GLN 1	В	259						Ċ
ATOM 4699 OEL GLN B 259	ATOM	4498	CD	GLN 1	В	259	25.495	-19.144	74.896			
ATOM 4500 NEZ GIN B 259 26.799 -18.162 75.729 1.00 35.86 N ATOM 4504 O GIN B 259 26.842 -21.283 70.497 1.00 34.89 C ATOM 4505 N SER B 260 23.791 -21.640 69.762 1.00 33.52 N ATOM 4505 N SER B 260 23.791 -21.640 69.762 1.00 33.52 N ATOM 4507 CA SER B 260 23.855 -22.620 68.699 1.00 32.46 C ATOM 4509 CB SER B 260 22.708 -23.628 68.833 1.00 32.50 O ATOM 4512 OG SER B 260 23.748 -21.883 67.374 1.00 32.50 O ATOM 4515 O SER B 260 23.748 -21.883 67.374 1.00 30.53 O ATOM 4515 O SER B 260 23.240 -20.759 67.309 1.00 30.83 O ATOM 4516 N ALA B 261 24.237 -22.540 66.329 1.00 30.11 N ATOM 4518 CA ALA B 261 24.237 -22.540 66.329 1.00 30.11 N ATOM 4520 CB ALA B 261 24.237 -22.540 66.329 1.00 30.11 N ATOM 4520 CB ALA B 261 22.408 -22.016 64.972 1.00 29.32 C ATOM 4524 C ALA B 261 22.459 -21.018 63.645 1.00 28.44 C ATOM 4526 N ASP B 262 21.889 -22.770 54.891 1.00 29.26 C ATOM 4526 N ASP B 262 21.898 -22.778 64.918 1.00 27.37 N ATOM 4530 CB ASP B 262 20.532 -22.883 64.411 1.00 26.27 C ATOM 4530 CB ASP B 262 19.808 -24.859 63.934 1.00 27.37 N ATOM 4530 CB ASP B 262 19.808 -24.859 63.934 1.00 27.37 N ATOM 4531 CA ASP B 262 19.008 -24.859 63.934 1.00 27.37 N ATOM 4535 CD ASP B 262 19.008 -24.859 63.934 1.00 27.37 C ATOM 4536 N ASP B 262 19.908 -24.859 63.934 1.00 27.37 C ATOM 4537 O ASP B 262 19.908 -24.859 63.934 1.00 27.37 C ATOM 4536 N ASP B 262 19.908 -24.859 63.934 1.00 27.37 C ATOM 4537 O ASP B 262 19.008 -24.859 63.934 1.00 27.37 C ATOM 4536 N ASP B 262 19.008 -24.859 63.934 1.00 27.37 C ATOM 4537 O ASP B 262 19.008 -24.859 63.934 1.00 27.39 C ATOM 4536 N ASP B 262 19.008 -24.859 63.934 1.00 27.37 C ATOM 4537 O ASP B 262 19.008 -24.859 63.934 1.00 27.37 C ATOM 4536 N ASP B 262 19.008 -24.859 63.934 1.00 27.37 C ATOM 4537 O ASP B 262 19.008 -24.859 63.934 1.00 22.15 C ATOM 4538 N ALA B 263 19.714 -21.260 66.048 1.00 23.14 N ATOM 4537 O ASP B 262 19.008 -24.859 63.934 1.00 22.15 C ATOM 4538 C ASP B 262 19.008 -24.859 63.934 1.00 22.15 C ATOM 4538 N ALA B 263 19.777 -77.77 C ATOM 4586 N ALA B 263 19.777 -77.77 C ATOM 4587 O C ASP B	MOTA	4499	OE1	GLN I	В	259	25.270	-20.297	75.275	1.00	35.62	
ATOM 4504 O CIN B 259	MOTA	4500	NE2	GLN I	В	259	25.799	-18.162	75.729			
ATOM 4504 O GLN B 259 25.984 -21.750 70.364 1.00 35.10 O ATOM 4505 N SER B 260 23.781 -21.640 69.762 1.00 33.52 N ATOM 4507 CA SER B 260 23.855 -22.620 68.699 1.00 32.46 C ATOM 4509 CB SER B 260 22.708 -23.628 68.833 1.00 32.56 C ATOM 4512 OG SER B 260 22.708 -23.628 68.833 1.00 32.56 C ATOM 4512 OG SER B 260 21.44B -22.968 68.777 1.00 32.50 O ATOM 4514 C SER B 260 23.748 -21.883 67.374 1.00 31.34 C ATOM 4516 N ALA B 261 24.237 -22.540 66.329 1.00 30.11 N ATOM 4516 N ALA B 261 24.237 -22.540 66.329 1.00 30.11 N ATOM 4518 CA ALA B 261 24.237 -22.540 66.329 1.00 30.11 N ATOM 4520 CB ALA B 261 25.044 -22.920 64.061 1.00 29.26 C ATOM 4524 C ALA B 261 22.459 -21.018 63.645 1.00 28.44 C ATOM 4526 N ASP B 262 21.889 -22.779 67.807 81.00 29.26 C ATOM 4526 N ASP B 262 21.889 -22.778 64.918 1.00 27.37 N ATOM 4530 CB ASP B 262 20.532 -22.883 64.411 1.00 26.27 C ATOM 4530 CB ASP B 262 19.808 -24.155 63.934 1.00 27.37 N ATOM 4530 CB ASP B 262 19.808 -24.155 63.934 1.00 27.38 C ATOM 4530 CB ASP B 262 19.008 -24.859 63.934 1.00 27.38 C ATOM 4530 CB ASP B 262 19.008 -24.859 63.934 1.00 27.38 C ATOM 4531 CD ASP B 262 19.008 -24.859 63.934 1.00 27.38 C ATOM 4534 ODI ASP B 262 19.008 -24.859 63.934 1.00 27.39 C ATOM 4536 C ASP B 262 19.008 -24.859 63.934 1.00 27.39 C ATOM 4536 C ASP B 262 19.008 -24.859 63.934 1.00 27.39 C ATOM 4537 C ASP B 262 18.851 -26.101 63.908 1.00 24.75 C ATOM 4538 N ALA B 263 19.774 -21.260 66.048 1.00 24.75 C ATOM 4537 C ASP B 262 18.851 -26.101 63.908 1.00 24.75 C ATOM 4537 C ASP B 262 18.851 -26.101 63.908 1.00 24.75 C ATOM 4537 C ASP B 262 18.939 -21.145 63.969 1.00 22.15 C ATOM 4537 C ASP B 262 18.939 -21.145 63.969 1.00 22.15 C ATOM 4538 N ALA B 263 18.957 -20.275 68.119 1.00 22.02 C C ATOM 4537 C ASP B 262 18.939 -21.145 63.969 1.00 22.15 C ATOM 4537 C ASP B 262 18.939 -21.145 63.969 1.00 22.15 C ATOM 4538 N ALA B 263 18.957 -20.275 68.119 1.00 22.15 C ATOM 4538 N ALA B 263 18.957 -20.275 68.119 1.00 22.10 C ATOM 4538 N ALA B 263 18.957 -20.275 68.119 1.00 22.02 C C ATOM 4548 N A ABR 264 20.258 19.	ATOM	4503	С	GLN 1	В	259	24.842	-21.283°	70.497	1.00	34.89	
ATOM 4509 CB SER B 260	MOTA	4504	0	GLN 1	В	259						
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ATOM 4564 NH1 ARG B 264 27.546 -16.798 63.559 1.00 29.00 N ATOM 4567 NH2 ARG B 264 27.673 -18.560 65.011 1.00 28.37 N ATOM 4570 C ARG B 264 20.650 -17.277 63.872 1.00 19.30 C ATOM 4571 O ARG B 264 20.258 -16.174 63.528 1.00 18.85 O ATOM 4572 N GLN B 265 20.575 -18.347 63.088 1.00 18.93 N ATOM 4574 CA GLN B 265 19.962 -18.292 61.753 1.00 18.74 C ATOM 4576 CB GLN B 265 20.125 -19.639 61.019 1.00 18.95 C ATOM 4579 CG GLN B 265 19.433 -19.732 59.638 1.00 20.26 C ATOM 4582 CD GLN B 265 19.893 -18.661 58.646 1.00 22.64 C ATOM 4583 OE1 GLN B 265 19.893 -18.661 58.646 1.00 22.64 C ATOM 4584 NE2 GLN B 265 19.007 -17.709 58.329 1.00 22.08 N ATOM 4587 C GLN B 265 18.488 -17.927 61.836 1.00 17.60 C ATOM 4588 O GLN B 265 17.977 -17.266 60.955 1.00 16.14 O ATOM 4589 N GLN B 266 17.824 -18.391 62.900 1.00 17.56												
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ATOM 4574 CA GLN B 265 19.962 -18.292 61.753 1.00 18.74 C ATOM 4576 CB GLN B 265 20.125 -19.639 61.019 1.00 18.95 C ATOM 4579 CG GLN B 265 19.433 -19.732 59.638 1.00 20.26 C ATOM 4582 CD GLN B 265 19.893 -18.661 58.646 1.00 22.64 C ATOM 4583 OE1 GLN B 265 21.032 -18.702 58.167 1.00 25.12 O ATOM 4584 NE2 GLN B 265 19.007 -17.709 58.329 1.00 22.08 N ATOM 4587 C GLN B 265 18.488 -17.927 61.836 1.00 17.60 C ATOM 4588 O GLN B 265 17.977 -17.266 60.955 1.00 16.14 O ATOM 4589 N GLN B 266 17.824 -18.391 62.900 1.00 17.56	ATOM	4571	0	ARG	В	264			63.528	1.00	18.85	0
ATOM 4576 CB GLN B 265 20.125 -19.639 61.019 1.00 18.95 C ATOM 4579 CG GLN B 265 19.433 -19.732 59.638 1.00 20.26 C ATOM 4582 CD GLN B 265 19.893 -18.661 58.646 1.00 22.64 C ATOM 4583 OE1 GLN B 265 21.032 -18.702 58.167 1.00 25.12 O ATOM 4584 NE2 GLN B 265 19.007 -17.709 58.329 1.00 22.08 N ATOM 4587 C GLN B 265 18.488 -17.927 61.836 1.00 17.60 C ATOM 4588 O GLN B 265 17.977 -17.266 60.955 1.00 16.14 O ATOM 4589 N GLN B 266 17.824 -18.391 62.900 1.00 17.56			N							1.00	18.93	
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ATOM	4601	NE2	GLN E	3 266	14.943 -22.593 64.210 1.00 22.10
ATOM	4604	С	GLN E		16.187 -16.694 63.471 1.00 16.86
ATOM	4605	0	GLN E		15.277 -16.067 62.947 1.00 16.83
ATOM	4606	N.		267.	17.060 -16.129 64.297 1.00 16.43
MOTA	4608	CA	ARG E		16.993 -14.688 64.582 1.00 16.37
ATOM	4610	CB	ARG E		18.019 -14.294 65.636 1.00 16.42
ATOM	4613	CG	ARG E		17.745 -14.848 67.025 1.00 17.67
ATOM	4616	CD	ARG E		
ATOM	4619	NE	ARG E		18.814 -14.433 68.007 1.00 19.76 18.716 -15.140 69.269 1.00 23.24
ATOM	4621	CZ	ARG E		
ATOM	4622		ARG I	3 267	
ATOM	4625		ARG E		
ATOM	4628	С	ARG E		10 100 10 10 10
ATOM	4629	ō	ARG E		
ATOM	4630	N	PHE E		
ATOM	4632	CA	PHE E		10 770
ATOM	4634	СВ	PHE E		
ATOM	4637	CG	PHE E		
ATOM	4638		PHE E		
ATOM	4640		PHE E		** *** ***
ATOM	4642	CZ	PHE E		
ATOM	4644		PHE E		
ATOM	4646		PHE E		
ATOM	4648	C	PHE E		
ATOM	4649	ŏ	PHE E		
ATOM	4650	N	ALA E		
ATOM	4652	CA	ALA E		
ATOM	4654	CB	ALA E		·
ATOM	4658	c	ALA E		
ATOM	4659	ŏ	ALA E		
ATOM	4660	N	HIS E		
ATOM	4662	CA	HIS E		
ATOM	4664	CB	HIS E		
ATOM	4667	ČĞ	HIS E		
ATOM	4668		HIS E		
ATOM	4670		HIS E		
ATOM	4672		HIS E		10.509 -11.792 65.010 1.00 15.22 11.426 -10.842 64.962 1.00 16.27
ATOM	4674	CD2	HIS E	3 270	12.517 -11.302 64.262 1.00 14.66
ATOM	4676	C	HIS E		13.371 -11.766 61.258 1.00 14.16
ATOM	4677	0	HIS E		12.450 -11.036 60.865 1.00 13.52
ATOM	4678	N	PHE E		14.606 -11.312 61.398 1.00 14.37
ATOM	4680	CA	PHE E		14.938 -9.950 61.014 1.00 15.70
ATOM	4682	CB	PHE E		10 000 20170
MOTA	4685	CG	PHE E		16.350 -9.577 61.477 1.00 15.92 16.438 -9.153 62.936 1.00 17.25
ATOM	4686	CD1	PHE E		15.458 -8.373 63.527 1.00 18.99
MOTA	4688		PHE E		15.570 -7.977 64.852 1.00 18.97
ATOM	4690	CZ	PHE E		16.657 -8.352 65.600 1.00 18.58
MOTA	4692	CE2	PHE E	3 271	17.632 -9.115 65.030 1.00 19.00
ATOM	4694		PHE E		17.520 -9.517 63.700 1.00 18.47
MOTA	4696	С	PHE E		14.783 -9.695 59.505 1.00 16.17
MOTA	4697	0	PHE E		14.345 -8.598 59.103 1.00 16.51
MOTA	4698	N	THR E		15.112 -10.679 58.662 1.00 15.92
MOTA	4700	CA	THR E		15.001 -10.440 57.229 1.00 15.60
ATOM	4702	CB	THR E		15.661 -11.557 56.360 1.00 15.19
ATOM	4704	OG1	THR E		15.064 -12.828 56.621 1.00 15.06
ATOM	4706	CG2	THR E	3 272	17.137 -11.762 56.702 1.00 14.81
ATOM	4710	С	THR E		13.521 -10.231 56.881 1.00 16.01
ATOM	4711	0	THR E		13.219 -9.511 55.943 1.00 16.04
ATOM	4712	N	GLU E		12.607 -10.837 57.645 1.00 16.31
ATOM	4714	CA	GLU E		11.168 -10.707 57.389 1.00 16.91
ATOM	4716	CB	GLU E		10.392 -11.783 58.155 1.00 17.59
•					12 001200 2100 27100

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ATOM ATOM ATOM ATOM	4719 4722 4723 4724 4725	CD OE1 OE2 C	GLU I GLU I GLU I	B 273 B 273 B 273 B 273 B 273	9.899 10.308 8.823 10.635	-13.200 -14.259 -15.457 -13.892 -9.325	57.716 58.396 58.416 58.916 57.752	1.00 19.28 1.00 22.41 1.00 22.79 1.00 25.21 1.00 17.10	C C C C C C C C
MOTA MOTA	4726 4727	O N		B 273 B 274	9.854 ·11.059	-8.736 -8.789	57.001 58.901	1.00 17.36 1.00 17.58	0
MOTA	4729			B 274	10.823	-7.373	59.181	1.00 17.80	и С
MOTA	4731	CB		B .274	11.429	-6.921	60.502	1.00 17.99	č
ATOM	4734	CG		B 274	10.954	-7.596	61.795	1.00 19.69	С
ATOM	4736			B 274	11.232	-6.739	63.002	1.00 18.59	C
ATOM ATOM	4740 4744	CD2		B 274 B 274	9.485	-8.001	61.738	1.00 21.65	C
ATOM	4745	0		B 274	11.330 10.626	-6.488 -5.603	58.052 57.639	1.00 17.31 1.00 17.76	C O
ATOM	4746	N		B 275	12.524	-6.743	57.539	1.00 17.78	N N
MOTA	4748	CA		B 275	13.124	-5.906	56.467	1.00 17.40	°c
MOTA	4750	CB		B 275	14.604	-6.314	56.187	1.00 17.30	c
ATOM	4754	C		B 275	12.318	-6.012	55.193	1.00 17.19	C
ATOM	4755	0		B. 275	12.125	-5.025	54.507	1.00 16.75	. 0
ATOM ATOM	4756 4758	N CA		B 276 B 276	11.826 11.006	-7.213 -7.449	54.911 53.737	1.00 17.43 1.00 17.71	N
ATOM	4760	CB		B 276	10.719	-8.928	53.737	1.00 17.71	C C
ATOM	4762	CG1		B 276	11.942	-9.601	52.945	1.00 17.02	C
ATOM	4765	CD1		B 276		-11.116	52.939	1.00 18.55	Č
ATOM	4769	CG2		B 276	9.473	-9.168	52.682	1.00 16.70	С
ATOM	4773	C		B 276	9.721	-6.663	53.873	1.00 18.56	C
ATOM ATOM	4774 4775	O N		B 276 B 277	9.284 9.119	-6.018 -6.696	52.911	1.00 19.96	0
ATOM	4777	CA		B 277	7.925	-5.909	55.058 55.283	1.00 18.40 1.00 18.33	и С
ATOM	4779	CB		B 277	7.373	-6.111	56.683	1.00 18.33	C
ATOM	4781	CG1		B 277	6.690		56.763	1.00 19.14	č
MOTA	4784	CD1	ILE	B 277	6.360	-7.874	58.165	1.00 20.33	Č
MOTA	4788	CG2		B 277	6.358	-5.040	57.058	1.00 17.80	C
ATOM	4792	C		B 277	8.207	-4.447	55.013	1.00 18.33	C
ATOM ATOM	4793	0		B 277	7.402	-3.795	54.374	1.00 18.06	0
ATOM	4794 4796	N CA		B 278 B 278	9.332 9.593		55.494 55.342	1.00 18.03	N
ATOM	4798	CB		B 278	10.753		56.225	1.00 18.30 1.00 18.70	C C
ATOM	4801	OG		B 278	10.934	-0.637	56.159	1.00 18.70	0
MOTA	4803	С		B 278	9.911	-2.168	53.879	1.00 18.90	č
MOTA	4804	0	SER	B 278	9.466		53.357	1.00 19.41	Ō
MOTA	4805	N		в 279	10.680		53.206	1.00 19.42	N
ATOM	4807	CA		B 279	11.012		51.823	1.00 19.96	С
MOTA MOTA	4809 4811	CB		B 279	12.030	-3.732	51.247	1.00 19.75	C
ATOM	4815			B 279 B 279	12.083 13.388	-3.671 -3.489	49.709 51.874	1.00 17.20	C
ATOM	4819	C		B 279	9.728	-2.646	50.988	1.00 18.66 1.00 20.32	C
ATOM	4820	ŏ		B 279	9.595		50.172	1.00 20.32	0
MOTA	4821	N		B 280	8.789		51.201	1.00 21.26	N
MOTA	4823	CA		B 280	7.540	-3.519	50.447	1.00 21.95	C
MOTA	4825	CB		B 280	6.728		50.683	1.00 22.34	С
ATOM	4828	CG		B 280	7.296		49.972	1.00 25.42	C
ATOM ATOM	4831	CD OF1		B 280	6.595		50.299	1.00 28.38	C
ATOM	4832 4833			B 280 B 280	5.971 6.699		51.352 49.387	1.00 29.60	O
ATOM	4836	C		B 280	6.717		50.765	1.00 29.80 1.00 22.09	N C
MOTA	4837	Ö		B 280	6.164		49.849	1.00 22.03	Ö
ATOM	4838	N		B 281	6.651		52.034	1.00 21.59	N
ATOM	4840	CA	GLU	B 281	5.911	-0.637	52.394	1.00 21.72	С
ATOM	4842	CB		B 281	5.853		53.910	1.00 21.87	С
ATOM	4845	CG	GLU	B 281	5.049	-1.473	54.655	1.00 22.25	С

ATOM ATOM	4848 4849	CD OE1	GLU B 281 . GLU B 281		-1.371	56.171	1.00 21.71		С
ATOM	4850	OE2	GLU B 281	5.975 4.529	-0.509		1.00 17.81		0
ATOM	4851	C	GLU B 281	6.531	-2.164 0.603	56.865	1.00 19.03		. 0
MOTA	4852	0	GLU B 281	5.816	1.473	51.745	1.00 21.36		, <b>C</b> ,
MOTA	4853	N	ILE B 282	7.860	0.669	51.300	1.00 20.72		; · o
MOTA	4855	CA	ILE B 282		1.799	51.696 51.062	1.00 21.78		N
ATOM	4857	CB	ILE B 282	10.080	1.695	51.321	1.00 22.00		C
ATOM	4859		ILE B 282	10.371	2.117	52.750	1.00 21.32 1.00 21.12		C
ATOM	4862	· CD1		11.700	1.678	53.247	1.00 21.12		C
ATOM	4866		ILE B 282		2.584	50.387	1.00 21.98		C C
ATOM	4870	C	ILE B 282		1.956	49.556	1.00 22.01		C
ATOM ATOM	4871 4872	0	ILE B 282		3.063	49.090	1.00 21.16		. 0
ATOM	4874	N CA	VAL B 283		0.843	48.829	1.00 22.96		. N
ATOM	4876	CB	VAL B 283 VAL B 283		0.790	47.429	1.00 23.47		Ċ
ATOM	4878		VAL B 283	7.700	-0.694	46.911	1.00 24.31		C
ATOM	4882	CG2	VAL B 283		-0.801	45.603	1.00 23.97		C.
ATOM	4886	C	VAL B 283	9.083	-1.331	46.734	1.00 24.06		C.
ATOM	4887	ŏ	VAL B 283	6.390 6.188	1.409 2.338	47.316	1.00 23.71		Ċ
MOTA	4888	N	ASP B 284	5.429	0.919	46.552 48.096	1.00 24.05		.0
MOTA	4890	CA	ASP B 284	4.066	1.492	48.091	1.00 23.71		N
ATOM	4892	CB	ASP B 284	3.112	0.675	48.960	1.00 23.80 1.00 24.45	•	C
ATOM	4895	CG	ASP B 284	2.905	-0.718	48.428	1.00 24.45		C
ATOM	4896	OD1	ASP B 284	2.521	-1.580	49.242	1.00 20.79		C
ATOM	4897		ASP B 284	3.115	-1.036	47.237	1.00 26.84		0
ATOM ATOM	4898	C	ASP B 284	3.993	2.935	48.557	1.00 22.85		C
ATOM	4899 4900	0	ASP B 284	3.293	3.733	47,975	1.00 23.18		Õ
ATOM	4900	N CA	PHE B 285	4.699	3.276	49.611	1.00 21.83		N
ATOM	4904	CB	PHE B 285 PHE B 285	4.708	4.665	50.043	1.00 21.89		Ċ
ATOM	4907	CG	PHE B 285	5.583	4.818	51.275	1.00 21.24		C
ATOM	4908		PHE B 285	5.789 4.854	6.228	51.707	1.00 20.61		C
MOTA	4910	CE1	PHE B 285	5.056	6.870 8.153	52.493	1.00 20.19		С
MOTA	4912	CZ	PHE B 285	6.207	8.810	52.915 52.548	1.00 18.83		C
ATOM	4914	CE2	PHE B 285	7.155	8.168	51.776	1.00 19.67 1.00 18.93		C
ATOM	4916		PHE B 285	6.949	6.894	51.379	1.00 18.93		C
ATOM	4918	C	PHE B 285	5.181	5.603		1.00 21.93	•	C .
MOTA	4919	0	PHE B 285	4.623	6.663	48.736	1.00 21.82		0
ATOM ATOM	4920 4922	N	ALA B 286	6.185	5.202	48.163	1.00 22.60	•	N
ATOM	4922	CA CB	ALA B 286	6.797	6.117	47.195	1.00 23.49		Ĉ
ATOM	4928	СБ	ALA B 286 ALA B 286	8.104	5.573	46.675	1.00 23.96		č
ATOM	4929	Ö	ALA B 286	5.844	6.475	46.050	1.00 23.30		C
ATOM	4930	N	LYS B 287	5.882 4.969	7.594	45.549	1.00 21.88		O .
ATOM	4932	CA	LYS B 287	3.907	5.836	45.682	1.00 24.38		N
MOTA	4934	СВ	LYS B 287	3.044	4.604	44.705	1.00 25.52		Ç
ATOM	4937	CG	LYS B 287	3.732	3.240	44.182	1.00 26.06 1.00 28.53		C
ATOM	4940	CD	LYS B 287	4.511	3.082	42.883	1.00 28.53		C
ATOM	4943	CE	LYS B 287	4.644	1.579	42.414	1.00 32.44		C
ATOM	4946	ΝZ	LYS B 287	3.774	0.604	43.161	1.00 31.88		· 14
ATOM ATOM	4950	C	LYS B 287	2.934	6.917	45.179	1.00 25.60	-	C
	4951 · 4952	O	LYS B 287	2.231	7.510	44.362	1.00 25.69		ŏ
ATOM	4954	N CA	GLN B 288 GLN B 288	2.845	7.102	46.499	1.00 25.59		N
ATOM	4956	CB	GLN B 288	1.929	8.052	47.129	1.00 25.14		C
MOTA	4959	CG	GLN B 288	1.466 0.625	7.533	48.507	1.00 24.91		C
ATOM	4962	CD	GLN B 288	-0.648	6.276	48.456	1.00 25.08		С
ATOM	4963	OE1	GLN B 288	-1.299	6.436 7.491	47.620	1.00 27.43		C
ATOM	4964	NE2	GLN B 288	-0.981	5.418	47.660 46.833	1.00 29.70 1.00 24.98		0
MOTA	4967	С	GLN B 288	2.576	9.409	47.326	1.00 24.98		N
							00 24.00		С

ATOM	4968	0	GLN	R	288	1.890	10.361	47.686	1.00 25.19	^
ATOM	4969		VAL			3.893	9.489			0
ATOM	4971		VAL			4.621		47.135	1.00 24.19	N
ATOM	4973	CB					10.739	47.252	1.00 23.51	C
			VAL			6.150	10.518	47.404	1.00 23.87	С
ATOM	4975		VAL			6.874	11.843	47.503	1.00 24.01	С
MOTA	4979		VAL			6.457	9.714	48.670	1.00 23.94	C
MOTA	4983	С	VAL			4.368	11.570	46.014	1.00 23.42	С
ATOM	4984	0	VAL	В	289	4.770	11.169	44.914	1.00 23.53	0
ATOM	4985	N	PRO	В	290	3.707	12.725	46.161	1.00 22.39	N
ATOM	4986	CA	PRO	В	290	3.448	13.592	45.005	1.00 21.62	C
ATOM	4988	CB	PRO			2.856	14.866	45.649	1.00 22.00	č
ATOM	4991	CG	PRO			2.174	14.361	46.864	1.00 21.47	č
ATOM	4994	CD	PRO			3.116	13.283	47.391	1.00 21.47	C
ATOM	4997	c	PRO			4.688	13.901	44.168		c
ATOM	4998	· 0.	PRO			5.726			1.00 20.84	
ATOM	4999	N.	GLY			4.569	14.371	44.658	1.00 21.04	0
							13.619	42.879	1.00 19.91	N
ATOM	5001	CA	GLY			5.663	13.767	41.951	1.00 18.79	С
MOTA	5004	С	GLY			6.398	12.474	41.612	1.00 18.26	С
ATOM	5005	0	GLY			7.054	12.382	40.585	1.00 18.74	0
MOTA	5006	N			292	6.351		42.455	1.00 17.97	N
MOTA	5008	CA			292	7.223	10.316	42.204	1.00 17.81	C,
MOTA	5010	CB	PHE	В	292	7.147	9.314	43.346	1.00 17.81	С
MOTA	5013	CG	PHE	В	292	8.097	8.164	43.218	1.00 15.70	С
ATOM	5014	CD1	PHE			9.436	8.339	43.477	1.00 14.75	Č
ATOM	5016		PHE			10.322	7.306	43.370	1.00 12.99	Č
MOTA	5018	CZ			292	9.868	6.065	43.025	1.00 15.22	Č
ATOM	5020		PHE			8.518	5.855	42.754	1.00 14.12	č
ATOM	5022		PHE			7.641	6.910	42.864	1.00 14.12	č
ATOM	5024	C			292	6.834	9.652	40.900	1.00 14.10	C
ATOM	5025	ŏ			292	7.695	9.244	40.133		
ATOM	5025	N			293				1.00 17.83	0
						5.527	9.585	40.640	1.00 19.39	N
ATOM	5028	CA			293	5.001	8.887	39.456	1.00 19.72	C
ATOM	5030	CB			293	3.526	8.460	39.652	1.00 19.64	C
MOTA	5033	CG			293	3.268	7.255	40.598	1.00 19.21	С
MOTA	5035		LEU			1.807	6.829	40.550	1.00 16.19	С
ATOM	5039		LEU			4.197	6.054	40.297	1.00 17.72	С
ATOM	5043	С			293	5.207	9.630	38.130	1.00 19.37	С
MOTA	5044	0	LEU	В	293	5.014	9.058	37.080	1.00 19.61	0
MOTA	5045	N	GLN	В	294	5.622	10.884	38.193	1.00 20.20	N
ATOM	5047	CA	GLN	В	294	5.975	11.664	37.008	1.00 21.50	С
MOTA	5049	CB	GLN	В	294	5.966	13.183	37.332	1.00 22.59	С
MOTA	5052	CG	GLN	В	294	4.564	13.821	37.595	1.00 27.10	С
MOTA	5055	CD	GLN	В	294	4.654	15.198	38.308	1.00 33.39	Ċ
ATOM	5056	OE1	GLN			5.554	16.012	38.022	1.00 38.40	Ö
MOTA	5057		GLN			3.721		39.237	1.00 37.44	Ŋ
ATOM	5060	C			294	7.368	11.312	36.468	1.00 21.10	Č
ATOM	5061	ō			294	7.672	11.635	35.314	1.00 21.09	ŏ
ATOM	5062	Ň			295	8.238	10.703	37.289	1.00 19.82	
ATOM	5064	CA			295	9.543	10.261	36.788		N
ATOM	5066	CB			295				1.00 19.71	C
						10.538	9.970	37.924	1.00 20.43	C
ATOM	5069	CG			295	10.846	11.084	38.906	1.00 21.71	C
ATOM	5071		LEU			11.603	10.523	40.085	1.00 23.72	C
ATOM	5075		LEU			11.615	12.198	38.214	1.00 23.91	C
ATOM	5079	C			295	9.337	9.012	35.972	1.00 18.12	С
MOTA	5080	0			295	8.359	8.281	36.192	1.00 18.00	0
MOTA	5081	N			296	10.224	8.785	35.011	1.00 17.34	N
MOTA	5083	CA			296	10.260	7.531	34.259	1.00 17.08	С
MOTA	5086	С	GLY	В	296	10.459	6.338	35.181	1.00 16.81	С
MOTA	5087	0	GLY	В	296	10.996	6.491	36.251	1.00 16.26	Ō
ATOM	5088	N			297	9.991	5.157	34.797	1.00 17.84	N
ATOM	5090	CA			297	10.085	3.999	35.679	1.00 18.97	Ċ
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ATOM	5092	CB	ARG	В	297		9.340	2.765	35.152	1 00	10 11			
MOTA	5095	CG			297		9.369	1.623	36.191	1.00	19.44			C
ATOM ·	5098	CD			297		8.029	0.943	36.521		25.58			C
MOTA	5101	NE			297		8.213	-0.388	37.146		33.49			C
ATOM	5103	CZ			297		8.667	-1.484	36.503	1.00	38.59			N
ATOM	5104	NH1	ARG				8.988	-1.443	35.217	1.00	40.41			. C
ATOM	5107		ARG				8.799	-2.639	37.158	1.00	40.97			N
ATOM ·	5110	С			297		1.533	3.615	36.020		41.67			N
ATOM	5111	0			297	1	1.780	3.095	37.094		17.76			Ċ
ATOM	5112	N			298		2.470	3.863	35.117		16.79			0.
ATOM	5114	CA	GLU				3.872	3.510	35.382		17.36			N
ATOM	5116	CB	GLU				4.722	3.476	34.100	1.00	17.32			C
ATOM	5119	CG			298		4.462	2.202	33.275		17.52			C
MOTA	5122	CD	GLU				5.096	2.207			18.16			С
MOTA	5123	OE1		В	298	1	5.119	3.301	31.886		21.18			C
ATOM	5124	OE2					5.581	1.121	31.259	1.00	22.69			0
MOTA	5125	C	GLU				4.476	4.392	31.428 36.465		18.63			
ATOM	5126	Ō	GLU				5.283	3.896	37.245	1.00	17.16			С
ATOM	5127	N	ASP				4.053	5.653			17.40			0
MOTA	5129	CA	ASP				4.505	6.534	36.563		16.22			N
ATOM	5131	СВ	ASP	В	299		4.263	7.996	37.640 37.279		16.84			C
ATOM	5134	CG	ASP				5.325	8.571			17.23	•		С
ATOM	5135		ASP	В	299		6.320	7.892	36.351	1.00	19.38			C
ATOM	5136	OD2	ASP	B	299		5.225	9.726	36.011	1.00	18.73			0
MOTA	5137	C	ASP				3.812	6.266	35.892		23.85			0
ATOM	5138	ō	ASP	В	299		4.425	6.447	39.012		16.95			С
ATOM	5139	N	GLN		300		2.533	5.891	40.047		15.53			0
MOTA	5141	CA	GLN		300		1.806	5.454	39.000 40.191		16.90			N
ATOM	5143	СВ	GLN		300		0.405	4.978		1.00	16.81			C
ATOM	5146	CG	GLN		300		9.455	6.063	39.804		16.86			С
ATOM	5149	CD	GLN		300		3.125	5.493	39.266	1.00	17.75			С
ATOM	.5150		GLN	В	300		7.711	4.452	38.770	1.00	16.43			C
ATOM	5151		GLN		300		7.472	6.175	39.234		16.78			0
MOTA	5154	С	GLN		300		2.556	4.277	37.817	1.00	13.03			N
MOTA	5155	0	GLN				2.809	4.251	40.822 42.021	1.00	17.48			C
MOTA	5156	N .	ILE		301		2.898	3.303	39.988		16.85			0
MOTA	5158	CA	ILE		301		3.665	2.145	40.401		17.63			N
ATOM	5160	СВ	ILE			1.	3.857	1.175	39.199		18.03			С
ATOM	5162	CG1	ILE		301		2.519	0.475	38.861		18.58			С
ATOM	5165	CD1	ILE		301		2.484	-0.080	37.456	1.00	19.45			C
MOTA	5169		ILE		301		1.899	0.096	39.512		19.64			C
ATOM	5173	С	ILE				5.017	2.579	41.002	1.00	18.33			C
ATOM	5174	0	ILE				3.361	2.151	42.109	1.00	17.95 17.99			C
ATOM	5175	N	ALA				5.740	3.461	40.304		16.92		•	0
MOTA	5177	CA	ALA				7.058	3.902	40.742		16.34			N
ATOM	5179	CB	ALA				7.698	4.738	39.702		16.84			C
MOTA	5183	С	ALA				7.019	4.654	42.052	1 00	16.05			C
ATOM	5184	0	ALA	В	302		7.828	4.414	42.935	1 00	15.80			C
ATOM	5185	N	LEU	В	303		5.068	5.556	42.183		17.14			0
ATOM	5187	CA	LEU				.849	6.288	43.418	1 00	17.79			N
MOTA	5189	CB	LEU	В	303		.791	7.385	43.231	1 00	18.09			C
MOTA	5192	CG	LEU	В	303		.221	8.531	42.308		17.67	•		. C
MOTA	5194	CD1	LEU	В	303		.092	9.512	42.250		19.09			C
MOTA	5198	CD2	LEU	В	303	16	5.499	9.237	42.738	1 00	17.93			C
MOTA	5202	С	LEU	В	303		.481	5.397	44.603		17.88			C
MOTA	5203	0	LEU				.018	5.576	45.694	1 00	18.09			C
ATOM	5204	N	LEU	В	304		.599	4.435	44.384	1 00	18.34		•	0
ATOM	5206	CA	LEU	В	304		.225	3.462	45.424		19.12			N
ATOM	5208	CB	LEU	В	304		3.000	2.648	45.029		19.12			C
MOTA	5211	CG	LEU	В	304		. 682	3.361	45.284		22.25			. C
ATOM	5213	CD1	LEU	В	304		.525	2.646	44.598		23.77			C
														C

ATOM	5217	CD2	LEU E	2 7	804	11.401	3.446	46.774	1.00 24.94	1	С
ATOM	5221		LEU E			15.362	2.504	45.797	1.00 19.10		č
ATOM	5222		LEU I			15.543	2.207	46.962	1.00 18.20	-	Ö
ATOM	5223		LYS I			16.118	2.041	44.817	1.00 19.6		N
ATOM	5225		LYS I			17.276	1.184	45.087	1.00 20.90		Ċ
ATOM	5227		LYS I			18.086	0.982	43.803	1.00 21.43		Č
MOTA	5230		LYS I			18.188	-0.474	43.290	1.00 25.43		č
ATOM	5233		LYS			19.671	-0.824		1.00 29.5		Č
ATOM	5236		LYS			19.872	-2.081	42.196	1.00 33.3		č
ATOM	5239		LYS			20.738	-3.092	42.899	1.00 35.0		N
ATOM	5243	C	LYS			18.194	1.820	46.132	1.00 21.1		Ĉ
ATOM	5244	ŏ	LYS			18.538	1.202	47.129	1.00 20.1		ŏ
ATOM	5245	Ň	ALA			18.575	3.079		1.00 21.6		N
ATOM	5247	CA	ALA			19.510	3.801	46.737	1.00 21.6		Ĉ
ATOM	5249	CB	ALA			20.118	5.014	45.965	1.00 21.7	7	С
ATOM	5253	C	ALA			18.909	4.265	48.054	1.00 21.5		C
ATOM	5254	<u>o</u> .	ALA			19.554	4.149	49.054	1.00 22.3		o
ATOM	5255	N	SER			17.673	4.763	48.059	1.00 21.9		N
ATOM	5257	CA	SER			17.102	5.400	49.238	1.00 22.3		C
ATOM	5259	СВ	SER			16.153		48.826	1.00 22.6		С
ATOM	5262	OG	SER			14.966	6.025	48.261	1.00 27.0		0
ATOM	5264	C	SER			16.392	4.463	50.237	1.00 21.6		С
ATOM	5265	0	SER			16.207	4.829	51.383	1.00 21.0		0
ATOM	5266	N	THR			16.068	3.242	49.820	1.00 21.1	2	N
MOTA	5268	CA	THR	В	308	15.358	2.303	50.663	1.00 20.1	7	С
MOTA	5270	CB	THR			15.120	1.004	49.866	1.00 20.2	2	С
ATOM	5272	OG1	THR			14.067	1.229	48.910	1.00 21.0	8	0
MOTA	5274	CG2	THR	В	308	14.597	-0.110	50.733	1.00 20.0	1	С
MOTA	5278	С	THR			16.055	2.063	52.013	1.00 19.8	7	С
ATOM	5279	0	THR	В	308	15.457	2.269	53.050	1.00 19.8	4	0
ATOM	5280	N	ILE	В	309	17.322	1.681	51.998	1.00 20.0	0	N
MOTA	5282	CA	ILE	В	309	18.078	1.457	53.226	1.00 20.4	4	С
ATOM	5284	CB	ILE	В	309	19.514	0.916	52.937	1.00 20.4	.3	C
MOTA	5286		ILE			20.193	0.428	54.226	1.00 21.8		С
MOTA	5289		ILE			19.587	-0.887	54.827	1.00 23.3		С
ATOM	5293	CG2	ILE			20.393	1.956	52.279	1.00 19.3		С
MOTA	5297	С	ILE			18.118	2.715	54.081	1.00 20.9		Ç
MOTA	5298	0	ILE			18.043	2.638	55.300	1.00 21.5		0
MOTA	5299	N	GLU		310	18.183	3.877	53.450	1.00 21.1		N
MOTA	5301	CA	GLU			18.233	5.136	54.194	1.00 20.5		C
MOTA	5303	СВ	GLU			18.665	6.279	53.278	1.00 21.1		C
MOTA	5306	CG	GLU			20.079	6.040	52.736	1.00 21.6		C
ATOM	5309	CD	GLU			20.596	7.171	51.871	1.00 21.0		0
MOTA	5310		GLU			20.027	8.242 6.987	51.917 51.151	1.00 22.9		0
MOTA	5311		GLU			21.586 16.912	5.428	54.846	1.00 24.1 1.00 19.8		c
ATOM	5312	С 0	GLU GLU			16.861	5.928	55.933	1.00 19.8		Õ
MOTA MOTA	5313 5314	N	ILE			15.828	5.084	54.181	1.00 20.2		N
ATOM	5314	CA	ILE			14.501	5.301	54.734	1.00 19.9		Č
ATOM	5318	CB			311	13.466	5.158	53.614	1.00 20.3		Č
ATOM	5320		ILE			13.622	6.325	52.637	1.00 20.2		č
ATOM	5323		ILE			12.700	6.234	51.452	1.00 20.9		č
ATOM	5327		ILE			12.013	5.097	54.200	1.00 20.9		č
ATOM	5331	C			311	14.230	4.325	55.916	1.00 19.8		Č
ATOM	5332	õ			311	13.590	4.684	56.920	1.00 18.3		ŏ
MOTA	5333	Ŋ			312	14.774	3.111	55.796			N
ATOM	5335	CA			312	14.665	2.119	56.854			Č
ATOM	5337	СВ			312	15.236	0.768	56.399			č
ATOM	5340	CG			312	14.301	0.062	55.431			Č
ATOM	5343	SD			312	15.032	-1.379	54.654			Š
ATOM	5344	CE			312	15.212	-2.430	56.106			С
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ATOM	5348	С	мет	B 312		15.389	2.612	E0 000	1 00 10 05
ATOM	5349	Õ		B 312		14.911	2.420	58.082 59.178	1.00 18.35
ATOM	5350	N	LEU			16.551	3.235	57.888	1.00 16.83
ATOM	5352	CA	LEU			17.357	3.744	58.995	1.00 18.33
ATOM	5354	CB	LEU			18.725	4.206	58.489	1.00 18.26
ATOM	5357	CG	LEU			19.673	3.040	58.189	1.00 18.25
ATOM	5359	CD1				20.869	3.421	57.305	1.00 18.56
ATOM	5363		LEU			20.170	2.424	59.473	1.00 19.14
ATOM	5367	С	LEU		•	16.618	4.884	59.701	1.00 18.97 1.00 18.25
ATOM	5368	0	LEU			16.587	4.957	60.918	1.00 18.25 1.00 18.53
ATOM	5369	N	LEU			15.981	5.746	58.938	1.00 18.33
ATOM	5371	CA	LEU			15.184	6.842	59.509	1.00 18.14
ATOM	5373	CB	LEU			14.670	7.733	58.372	1.00 19.14
ATOM	5376	CG	LEU	B 314		15.050	9.202	58.059	1.00 20.71
ATOM	5378	CD1	LEU	B 314		16.217	9.794	58.783	1.00 21.19
ATOM	5382	CD2	LEU	B 314		15.206	9.415	56.548	1.00 19.63
ATOM	5386	С	LEU	B 314		13.974	6.296	60.298	1.00 18.07
MOTA	5387	0	LEU			13.629	6.774	61.370	1.00 17.93
MOTA	5388	N	GLU			13.309		59.741	1.00 18.08
MOTA	5390	CA	GLU			12.166	4.692	60.394	1.00 17.56
ATOM	5392	CB	GLU			11.424	3.831	59.375	1.00 18.44
ATOM	5395	CG	GLU			10.579	4.641	58.385	1.00 19.99
MOTA	5398	CD	GLU			9.477	5.446	59.101	1.00 22.89
ATOM	5399		GLU			8.566	4.831	59.704	1.00 24.43
ATOM	5400		GLU			9.532	6.691	59.087	1.00 25.41
ATOM	5401	C	GLU		•	12.581	3.895	61.644	1.00 16.81
ATOM	5402	0	GLU			11.826	3.775	62.569	1.00 16.86
ATOM	5403	N	THR			13.801	3.383	61.663	1.00 16.33
ATOM	5405	CA	THR			14.366	2.674	62.780	1.00 16.08
ATOM ATOM	5407	CB	THR			15.614	1.913	62.285	1.00 15.87
ATOM	5409	OG1	THR			15.208	0.804	61.491	1.00 14.80
ATOM	5411	CG2		B 316		16.367	1.251	63.426	1.00 17.13
ATOM	5415 5416	C	THR			14.749	3.640	63.902	1.00 17.34
ATOM	5417	O N	THR ALA			14.463	3.401	65.074	1.00 17.55
ATOM	5419	CA	ALA			15.400	4.745	63.552	1.00 18.26
ATOM	5421	CB	ALA			15.695	5.811	64.522	1.00 18.61
ATOM	5425	C	ALA			16.429 14.421	6.964	63.824	1.00 18.53
ATOM	5426	ŏ	ALA			14.421	6.332	65.204	1.00 18.68
ATOM	5427	Ŋ	ARG			13.377	6.571 6.502	66.400 64.426	1.00 18.89
ATOM	5429	CA	ARG			12.083	6.983	64.928	1.00 18.61
ATOM	5431	CB	ARG		•	11.155	7.112	63.709	1.00 19.48
ATOM	5434	CG	ARG			9.762	7.573	63.709	1.00 19.79 1.00 21.32
ATOM	5437	CD		B 318		8.974	7.561	62.652	1.00 21.32
MOTA	5440	NE		B 318		7.814	8.424	62.760	1.00 22.32
MOTA	5442	CZ	ARG	B 318		7.149	8.902	61.720	1.00 23.25
MOTA	5443		ARG	B 318		7.514	8.605	60.475	1.00 23.85
ATOM .	5446	NH2	ARG	B 318		6.114	9.702	61.930	1.00 23.62
ATOM	5449	C	ARG	B 318		11.431	6.027	65.951	1.00 19.52
MOTA	5450.	0		B 318		10.512	6.419	66.646	1.00 18.83
ATOM	5451	N		в 319		11.884	4.769	65.972	1.00 19.51
ATOM	5453	CA	ARG	B 319		11.359	3.735	66.838	1.00 19.63
ATOM	5455	CB	ARG	B 319		11.023	2.513	65.990	1.00 20.14
ATOM	5458	CG		B 319	-	9.761	2.674	65.155	1.00 20.16
MOTA	5461	CD		B 319		9.662	1.671	64.069	1.00 22.23
ATOM	5464	NE		B 319		8.375	1.782	63.392	1.00 23.64
ATOM	5466	CZ	ARG	B 319		8.091	2.668	62.463	1.00 22.31
ATOM	5467	NHT	ARG	B 319		8.996	3.540	62.053	1.00 21.00
ATOM ATOM	5470			B 319	•	6.883	2.677	61.934	1.00 23.04
ATOM	5473 5474	C	AKG	B 319		12.341	3.326	67.931	1.00 19.98
ALOM	0414	0	MKG	B 319		12.071	2.396	68.673	1.00 18.70

7.004	£ 475		murn :	_	200							
ATOM	5475	-	TYR	_		13.490	4.006	68.013	1.00			N
ATOM	5477		TYR			14.429	3.830	69.124	1.00			C
ATOM	5479		TYR			15.810	4.382	68.752	1.00			С
ATOM	5482		TYR		320	16.807	4.495	69.897	1.00			С
MOTA	5483		TYR			17.366	3.355	70.464	1.00			С
ATOM	5485		TYR			18.290	3.432	71.508		21.17	•	С
MOTA	5487	CZ	TYR			18.689	4.668	71.998	1.00			С
MOTA	5488	ОН	TYR			19.595	4.689	73.039		20.80		0
MOTA	5490		TYR			18.163	5.837	71.448		21.45		C
MOTA	5492		TYR			17.218	5.745	70.391		21.97		С
MOTA	5494	C	TYR			13.868	4.515	70.387		21.80		С
ATOM	5495	0	TYR			13.303	5.595	70.328		21.19		0
ATOM	5496	N	ASN			13.998	3.843	71.521		22.40		N
ATOM	5498		ASN			13.573	4.373	72.802		22.77		С
ATOM	5500	CB	ASN			12.708	3.358	73.550		22.95		C
ATOM	5503	CG	ASN			12.145	3.903	74.842		22.61		С
ATOM	5504		ASN			11.047	3.543	75.250		22.66		0
ATOM	5505		ASN			12.895	4.762	75.498		23.35		N
ATOM	5508	С	ASN			14.835	4.609	73.562		23.23		C
ATOM	5509	0	ASN			15.522	3.651	73.936		22.65		0
ATOM	5510	N	HIS			15.151	5.884	73.795		24.18		N
ATOM	5512	CA	HIS			16.393	6.224	74.473		24.47		C
ATOM	5514	CB	HIS			16.671	7.716	74.398		24.86		C
ATOM	5517	CG	HIS			18.070	8.070	74.772		26.27		C
MOTA	5518		HIS			19.137	7.229	74.524		28.18		N
MOTA	5520		HIS			20.247	7.791	74.968		29.87		C
MOTA	5522		HIS		322	19.940	8.968	75.492		29.50		N
ATOM	5524		HIS			18.582	9.162	75.388		28.26		C
ATOM	5526	C	HIS		322 322	16.424	5.764 5.505	75.919		24.60		C
MOTA	5527	O N	HIS			17.498		76.451		24.45		0
ATOM ATOM	5528 5530	N	GLU GLU			15.263	5.659	76.555		25.02		N
ATOM	5532	CA CB	GLU		323	15.203 13.811	5.201 5.403	77.954 78.571		26.23		C
ATOM	5535	CG	GLU			13.212	6.790	78.408		28.87		C C
ATOM	5538	CD	GLU			11.754	6.805	78.818		31.76		C
ATOM	5539	OE1				10.910	6.371	77.989		33.58		0
ATOM	5540		GLU			11.461	7.229	79.964		32.60		Ö
ATOM	5541	C	GLU			15.596	3.725	78.122		25.81		Č
ATOM	5542	ŏ	GLU			16.390	3.390	79.010		26.29		ŏ
ATOM	5543	И	THR			15.012	2.852	77.298		24.93		N
ATOM	5545	CA	THR			15.311	1.418	77.351	-	24.29		Č
ATOM	5547	CB	THR			14.126	0.596	76.828		24.13		Č
ATOM	5549		THR			13.771	1.042	75.512		25.21		ŏ
ATOM	5551		THR			12.851	0.815	77.667		23.59		č
ATOM		C	THR			16.557	1.042	76.551		24.20		Č
ATOM	5556	Ō			324	17.089	-0.046	76.731		23.81		Ö
MOTA	5557	N			325	17.028	1.944	75.684		24.04		N
MOTA	5559	CA			325	17.977	1.596	74.625		23.70		С
ATOM	5561	CB			325	19.364	1.253	75.189		24.14		C
ATOM	5564	CG			325	19.832	2.161	76.308		26.62		C
MOTA	5567	CD			325	21.336	2.127	76.505	1.00	29.49		C
ATOM	5568		GLU			21.818	1.245	77.250		32.94		0
ATOM	5569		GLU			22.039	2.989	75.926	1.00	32.53		0
ATOM	5570	С			325	17.472	0.421	73.791	1.00	22.50		С
ATOM	5571	0			325	18.257	-0.448	73.445		22.33		0
MOTA	5572	N	CYS	В	326	16.175	0.415	73.471	1.00	21.62		N
MOTA	5574	CA			326	15.556	-0.628	72.625		21.10		С
MOTA	5576	CB			326	14.577	-1.483	73.437		20.94		С
ATOM	5579	SG			326	15.362	-2.639	74.570	1.00	19.56		S
ATOM	5580	С			326	14.796	-0.052	71.432	1.00	20.61		С
ATOM	5581	0	CYS	В	326	14.300	1.071	71.509	1.00	20.40		0
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MOTA	5582	N	ILE	В	327	14.697	-0.836	70.348	1 00	19.85			),T
MOTA	5584	CA	ILE			13.946							N
							-0.442	69.150		19.33			С
ATOM	5586	CB	ILE			14.789	-0.602	67.845	1.00	19.03			С
MOTA	5588	CG1	ILE	В	327	16.075	0.213	67.923	100	19.00			C
MOTA	5591		ILE			17.036	-0.001	66.787		19.79			~
ATOM ·												•	С
	5595		ILE			13.998	-0.115	66.652	1.00	19.82			С
MOTA	5599	С	ILE	В	327	12.702	-1.301	69.059	1.00	19.16			С
ATOM	5600	0	ILE	В	327	12.772	-2.506	69.306		19.67			
ATOM	5601	N											0
			THR			11.581	-0.682	68.682		18.82	•		N.
ATOM	5603	CA	THR	В	328	10.294	-1.352	68.524	1.00	18.96			C.
MOTA	5605	CB	THR	В	328	9.249	-0.689	69.425		18.83			Č.
ATOM	5607	OG1				9.679	-0.792						
								70.786		18.81			0
ATOM	5609	CG2				7.904	-1.434	69.391	1.00	18.66			С
ATOM	5613	С	THR	В	328	9.788	-1.324	67.058	1.00	19.53	•		C.
ATOM	5614	0	THR	В	328	9.301	-0.299	66.575		19.81			ō
ATOM	5615	N											
			PHE		329	9.864	-2.476	66.390		19.15			N
ATOM	5617	CA	PHE		329	9.343	-2.642	65.054	1.00	19.04			Ċ
ATOM	5619	CB	PHE	В	329	10.245	-3.635	64.309	1.00	19.24			Ċ
MOTA	5622	CG	PHE		329	11.622	-3.116	64.046		17.86			ă
ATOM	5623		PHE										С
						12.727	-3.768	64.539		17.81			С
MOTA	5625	CE1	PHE	В	329	14.020	-3.267	64.293	1.00	19.08			С
ATOM	5627	CZ	PHE	В	329	14.187	-2.105	63.530		18.44			č
ATOM	5629		PHE		329	13.084	-1.435						C
								63.061		18.69			C
ATOM	5631		PHE			11.808	-1.933	63.326	1.00	19.29			С
ATOM	5633	С	PHE	В	329	7.896	-3.128	65.037	1.00	19.53			С
ATOM	5634	0	PHE	В	329	7.393	-3.654	66.012		19.84			ŏ
ATOM	5635	N			330	7.235							
							-2.944	63.899		20.05			N
ATOM	5637	CA	LEU		330	5.863	-3.396	63.695	1.00	20.57			С
ATOM	5639	CB	LEU	В	330	5.783	-4.927	63.618	1.00	20.30			С
ATOM	5642	CG	LEU		330	6.728	-5.566	62.591		20.35			č
ATOM	5644		LEU		330								C
						6.402	-7.034	62.356		22.00			С
ATOM	.5648				330.	6.785	-4.780	61.247	1.00	21.40			С
ATOM	5652	С	$_{ m LEU}$	В	330	4.976	-2.784	64.763		21.47			С
ATOM	5653	0	LEU	В	330	4.895	-1.556	64.830		21.99			
ATOM	5654	N			331								0
						4.326	-3.599	65.588		21.65			N
ATOM	5656	CA	LYS		331	3.487	-3.085	66.647	1.00	22.41			С
ATOM	5658	CB	LYS	В	331	2.128	-3.796	66.636	1.00	23.11			C
ATOM	5661	CG			331	1.145	-3.253	67.690		24.32			$\tilde{a}$
ATOM	5664	CD	LYS										С
					331	-0.236	-3.877	67.543		27.35			С
ATOM	5667	CE	LYS		331	-0.555	-4.869	68.655	1.00	27.05	•		С
ATOM	5670	NZ	LYS	В	331	-2.010	-4.872	68.941		28.91			N
ATOM	5674	С			331	4.126	-3.198	68.045		22.31			
ATOM	5675	ŏ	LYS		331								C
						4.046	-2.242	68.794		22.32			0
ATOM	5676	N			332	4.759	-4.342	68.351	1.00	21.99			N
ATOM	5678	CA	ASP	₿	332	5.142	-4.776	69.707		22.70			С
ATOM	5680	CB	·ASP	В	332	4.166	-5.881	70.209		23.29			
ATOM	5683	CG			332								C
						2.813	-5.372	70.469		26.06			С
MOTA	5684		ASP			2.666	-4.139	70.484	1.00	31.51			0.
ATOM	5685	OD2	ASP	В	332	1.838	-6.112	70.700		31.02			Ō
MOTA	5686	С			332	6.488	-5.470	69.789					
MOTA	5687	ō								21.82			С
					332	6.823	-6.033	70.836		22.97		•	0
ATOM	5688	N			333	7.205	-5.541	68.692	1.00	20.93			N
ATOM	5690	CA	PHE	В	333	8.393	-6.381	68.615		20.56	•		C
ATOM	5692	CB			333	8.589	-6.931						
ATOM	5695		Dha	- E	222			67.175		20.26			С
		CG			333	7.773	-8.187	66.859		18.60			С
ATOM	5696	CDI	PHE	В	333	7.974	-8.869	65.668	1.00	16.45			С
MOTA	5698	CE1	PHE	В	333		-10.046	65.359		16.99			č
ATOM	5700	CZ			333		-10.521						$\sim$
ATOM	5702							66.247		16.55			С
			PHE			6.074	-9.858	67.452		17.17			C
MOTA	5704		PHE			6.818	-8.686	67.751	1.00	18.38	•		С
MOTA	5706	С	PHE	В	333	9.528	-5.473	69.008		20.49			·Č
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ATOM	5707	0	PHE	B 333	9.864	-4.548	60 262	1 00 00 00	_
ATOM	5708						68.262	1.00 20.91	0
		N		B 334	10.100	-5.703	70.180	1.00 20.24	N
MOTA	5710	CA	THR 1	B 334	11.125	-4.806	70.703	1.00 20.44	Ċ
ATOM	5712	CB	THR 1	B 334	10.594	-3.926	71.894	1 00 00 17	
MOTA	5714	OG1		B 334				1.00 20.17	С
					11.636	-3.678	72.846	1.00 20.79	0
ATOM	5716	CG2	THR :	B 334	9.522	-4.614	72.673	1.00 21.30	Ċ
ATOM	5720	С	THR 1	B 334	12.439	-5.534	71.012	1 00 00 00	
ATOM	5721	Ö						1.00 20.30	С
				B 334	12.449	-6.640	71.561	1.00 19.10	0
ATOM	5722	N	TYR !	B 335	13.534	-4.867	70.631	1.00 20.31	· N
ATOM	5724	CA	TYR 1	B 335	14.844	-5.473	70.484		
ATOM	5726	СВ						1.00 20.40	С
				B 335	15.174	-5.647	68.990	1.00 20.45	С
ATOM	5729	CG	TYR :	B 335	14.148	-6.448	68.225	1.00 20.55	С
ATOM	5730	CD1	TYR 1	B 335	13.154	-5.818		1.00 20.44	Ö
ATOM	5732	CE1		B 335	12.198				C
						-6.569	66.797	1.00 19.73	С
MOTA	5734	CZ		B 335	12.257	-7.953	66.864	1.00 19.12	С
ATOM	5735	OH	TYR 1	B 335	11.337	-8.725	66.209	1.00 17.64	ő
MOTA	5737	CE2		В 335	13.229	-8.579		1.00 17.04	
ATOM	5739						67.601	1.00 19.14	С
		CD2		B 335	14.159	-7.836	68.272	1.00 19.10	С
ATOM	5741	С	TYR I	B 335	15.932	-4.612	71.129	1.00 20.52	Č
ATOM	5742	0	TYR I	B 335	16.014	-3.412		1.00 20.05	
ATOM	5743	N							0
				В 336	16.782	-5.251	71.922	1.00 20.43	N
ATOM .	5745	CA		B 336	17.952	-4.597	72.486	1.00 20.33	С
MOTA	5747	CB	SER I	B 336	18.305	-5.241	73.831	1.00 19.99	
MOTA	5750	OG		B 336					C
					18.585	-6.618	73.665	1.00 20.30	0
ATOM	5752	С	SER	B 336	19.143	-4.690	71.528	1.00 20.27	С
ATOM	5753	0	SER 1	B 336	19.108	-5.427	70.523	1.00 19.81	Ö
ATOM	5754	N		В 337	20.185	-3.919			
ATOM	5756						71.834	1.00 20.18	N
		CA		В 337	21.451	-4.021	71.121	1.00 20.61	С
MOTA	5758	CB	LYS I	B 337	22.568	-3.298	71.884	1.00 20.73	Ċ
MOTA	5761	CG	T.YS I	В 337	22.946	-1.926	71.372		
ATOM	5764	CD						1.00 20.74	С
				В 337	24.458	-1.797	71.188	1.00 22.51	С
ATOM	5767	CE	LYS 1	B 337	24.986	-0.449	71.664	1.00 24.73	С
ATOM	5770	NZ	LYS I	B 337	25.604	0.333	70.567	1.00 26.13	
ATOM	5774	С		В 337	21.835				N
						-5.494	70.951	1.00 20.77	С
ATOM	5775	0		B 337	22.051	-5.968	69.837	1.00 20.79	0
ATOM	5776	N	ASP 1	B 338	21.905	-6.215	72.065	1.00 20.59	N
ATOM	5778	CA		B 338	22.367	-7.594	72.041		
ATOM	5780	CB		B 338				1.00 20.75	С
					22.527	-8.136	73.470	1.00 20.88	С
ATOM	5783	CG		B 338	23.646	-7.453	74.224	1.00 21.14	C
MOTA	5784	OD1	ASP I	B 338	24.481	-6.772	73.571	1.00 23.64	
ATOM	5785		ASP I		23.767				0
ATOM						-7.516	75.454	1.00 19.13	0
	5786	С		B 338	21.493	-8.527	71.193	1.00 20.83	С
ATOM	5787	0	ASP 1	B 338	21.981	-9.566	70.726	1.00 20.93	Ō
ATOM	5788	N	ASP 1	B 339	20.221	-8.180	70.990	1.00 20.59	
ATOM	5790	CA							N
				B 339	19.355			1.00 20.18	С
MOTA	5792	CB	ASP 1	B 339	17.901	-8.484	70.139	1.00 20.18	С
ATOM	5795	CG	ASP 1	B 339	17.172	-8.945	71.373	1.00 20.04	č
ATOM	5796		ASP I		17.694				
						-9.807	72.080	1.00 21.91	0
MOTA	5797		ASP I		16.061	-8.521	71.725	1.00 22.48	0
ATOM	5798	С	ASP I	B 339	19.864	-8.993	68.658	1.00 20.01	Ċ
ATOM	5799	0		B 339	19.809		67.992		
ATOM								1.00 19.12	0
	5800	N		B 340	20.347	-7.845	68.185	1.00 20.00	N
ATOM	5802	CA	PHE I	B 340	20.913	-7.732	66.842	1.00 20.04	С
ATOM	5804	CB	PHE I	B 340	21.054	-6.266	66.464	1.00 19.91	
ATOM	5807	CG		B 340					C
					19.739	-5.540	66.446	1.00 18.63	С
MOTA	5808	CDI	PHE 1	B 340	19.324	-4.812	67.547	1.00 15.10	С
ATOM	5810	CE1	PHE I	B 340	18.111	-4.167	67.544	1.00 15.79	č
MOTA	5812	CZ		В 340	17.279	-4.273			
ATOM							66.438	1.00 16.79	С
	5814	CEZ	PHE 1	B 340	17.687	-5.004	65.329	1.00 16.17	С
MOTA	5816	CD2	PHE I		18.896	-5.640	65.341	1.00 17.09	Ċ
MOTA	5818	С		B 340	22.248	-8.474	66.748	1.00 20.74	Ċ
		<del></del>						4.00 20.74	C

ATOM 5944 C DU B 348	ATOM	5943		GLU E			34.595	-4.475	62.528	1.00 31.99	0
ATOM 5946 N PHE B 349 26.902 -2.359 61.625 1.00 26.35 N ATOM 5950 CB PHE B 349 26.902 -2.359 61.625 1.00 26.35 C ATOM 5953 CG PHE B 349 26.902 -2.359 61.625 1.00 27.07 C ATOM 5954 CD1 PHE B 349 24.955 -3.474 60.284 1.00 27.97 C ATOM 5956 CE1 PHE B 349 24.955 -3.474 60.284 1.00 27.97 C ATOM 5956 CE1 PHE B 349 24.955 -3.474 60.284 1.00 29.03 C ATOM 5958 CZ PHE B 349 22.534 -3.269 58.567 1.00 29.03 C ATOM 5958 CZ PHE B 349 22.534 -3.269 58.666 1.00 29.80 C ATOM 5960 CE2 PHE B 349 22.666 -4.231 59.842 1.00 28.08 C ATOM 5961 CE PHE B 349 22.666 -4.231 59.842 1.00 28.08 C ATOM 5962 CD2 PHE B 349 22.666 -4.231 59.842 1.00 28.08 C ATOM 5965 O PHE B 349 26.040 -1.845 60.537 1.00 29.40 C ATOM 5966 C A ILE B 350 26.048 -2.555 63.895 1.00 29.40 C ATOM 5967 CB ILE B 350 25.220 -3.375 66.789 1.00 24.46 C ATOM 5968 CA ILE B 350 25.220 -3.375 66.089 1.00 24.46 C ATOM 5970 CB ILE B 350 25.220 -3.375 66.089 1.00 24.46 C ATOM 5970 CB ILE B 350 25.220 -3.375 66.089 1.00 24.46 C ATOM 5970 CB ILE B 350 25.230 -3.375 66.342 1.00 24.46 C ATOM 5970 CB ILE B 350 25.374 -0.086 66.342 1.00 24.46 C ATOM 5970 CB ILE B 350 25.370 -0.937 67.316 1.00 25.40 C ATOM 5980 C ILE B 350 25.370 -0.937 67.316 1.00 23.35 C ATOM 5981 C ILE B 350 25.370 -0.937 67.316 1.00 24.06 C ATOM 5987 CA ASN B 351 26.615 -0.690 65.959 1.00 23.14 N ATOM 5987 CA ASN B 351 26.615 -0.690 65.959 1.00 23.14 N ATOM 5989 CB ASN B 351 26.615 -0.690 66.797 1.00 23.14 N ATOM 5990 CB ASN B 351 26.615 -0.690 66.797 1.00 23.14 N ATOM 5991 CC ASN B 351 28.590 -0.413 68.591 1.00 24.24 C ATOM 5991 CC ASN B 351 28.690 -0.413 68.591 1.00 24.25 C ATOM 6000 CA FRO B 352 27.014 1.00 30.00 66.100 22.25 C ATOM 6000 CC FRO B 352 27.016 61.00 60.00 60.00 22.25 C ATOM 6000 CC FRO B 352 27.016 61.00 60.00 60.00 22.25 C ATOM 6000 CC FRO B 352 27.018 2.00 66.60 67.51 1.00 22.27 C ATOM 6000 CC FRO B 352 27.016 61.00 60.00 60.00 22.27 C ATOM 6000 CC FRO B 352 27.016 61.00 60.00 60.00 22.25 C ATOM 6000 CC FRO B 352 27.016 61.00 60.00 60.00 22.25 C ATOM 6000 CC FRO B 352 27.00 60.00 66.00 67.00 1.00	ATOM	5944					29.241	-1.768	62.205	1.00 26.52	C
ATOM 5950 CB PHE B 349 26.283 -3.652 61.030 1.00 26.53 CC ATOM 5950 CB PHE B 349 26.283 -3.652 61.030 1.00 27.97 CC ATOM 5954 CD1 PHE B 349 24.801 -2.526 59.295 1.00 29.29 CC ATOM 5956 CE1 PHE B 349 24.801 -2.526 59.295 1.00 29.29 CC ATOM 5956 CE2 PHE B 349 22.534 -3.269 58.866 1.00 29.29 CC ATOM 5960 CE2 PHE B 349 22.534 -3.269 58.866 1.00 29.80 CC ATOM 5960 CE2 PHE B 349 22.534 -3.269 58.866 1.00 29.80 CC ATOM 5964 C PHE B 349 23.882 -4.345 60.537 1.00 29.29 CC ATOM 5964 C PHE B 349 26.040 -1.845 62.782 1.00 26.01 C ATOM 5965 C D PHE B 349 26.040 -1.845 62.782 1.00 26.01 C ATOM 5966 N ILE B 350 26.044 -2.565 63.895 1.00 25.04 N ATOM 5968 C D PHE B 349 26.384 -2.565 63.895 1.00 25.04 N ATOM 5967 CB ILE B 350 25.114 -2.299 64.977 1.00 24.65 C ATOM 5970 CB ILE B 350 25.124 -2.565 63.895 1.00 25.04 N ATOM 5970 CB ILE B 350 25.124 -2.565 63.895 1.00 24.65 C ATOM 5975 CDI ILE B 350 24.795 -4.753 65.561 1.00 25.04 C ATOM 5975 CDI ILE B 350 24.795 -4.753 65.561 1.00 25.04 C ATOM 5975 CDI ILE B 350 24.795 -4.753 65.561 1.00 25.04 C ATOM 5975 CDI ILE B 350 24.795 -4.753 65.561 1.00 25.04 C ATOM 5975 CDI ILE B 350 24.795 -4.753 65.561 1.00 25.04 C ATOM 5983 C ILE B 350 24.756 -0.138 65.735 1.00 24.28 C ATOM 5987 CA ASN B 351 26.615 -0.690 65.959 1.00 23.74 C ATOM 5987 CA ASN B 351 26.615 -0.690 65.959 1.00 23.14 N ATOM 5989 CB ASN B 351 26.615 -0.690 65.959 1.00 23.14 N ATOM 5989 CB ASN B 351 26.615 -0.690 65.959 1.00 23.14 N ATOM 5993 N PRO B 352 27.634 -1.013 69.119 1.00 24.68 N ATOM 5997 C ASN B 351 28.580 -0.413 68.591 1.00 24.68 N ATOM 5999 N PRO B 352 27.634 -1.013 69.119 1.00 24.68 N ATOM 5999 N PRO B 352 27.634 -1.013 69.119 1.00 24.68 N ATOM 6000 CA PRO B 352 27.634 -1.013 69.119 1.00 24.68 N ATOM 6000 CA PRO B 352 27.001 20.00 66.919 1.00 22.25 C ATOM 6000 CA PRO B 352 27.001 20.00 66.919 1.00 22.25 C ATOM 6000 CA PRO B 352 27.001 20.00 66.919 1.00 22.25 C ATOM 6000 CA PRO B 352 27.00 60.00 66.950 C ATOM 6000 CA PRO B 352 27.00 60.00 66.950 C ATOM 6000 CA PRO B 352 27.00 60.00 66.950 C ATOM 6000 CA PRO B 352 2											
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ATOM 5975 CD1 ILE B 350		5968	CA	ILE	в :	350		-2.299			
ATOM   S975   CD1   ILE   B 350	MOTA	5970	CB	ILE	В	350					С
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ATOM 5983 C ILE B 350											C
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ATOM 6042 CE1 PHE B 354 20.841 -1.166 68.358 1.00 22.86 C ATOM 6044 CZ PHE B 354 19.861 -0.976 69.308 1.00 24.11 C ATOM 6046 CE2 PHE B 354 19.837 0.206 70.052 1.00 24.26 C ATOM 6048 CD2 PHE B 354 20.793 1.177 69.830 1.00 23.71 C ATOM 6050 C PHE B 354 22.879 4.475 67.824 1.00 22.76 C ATOM 6051 O PHE B 354 22.102 5.260 68.340 1.00 23.11 O ATOM 6052 N GLU B 355 24.121 4.809 67.500 1.00 22.50 N ATOM 6054 CA GLU B 355 24.564 6.197 67.547 1.00 22.65 C ATOM 6056 CB GLU B 355 25.988 6.344 66.980 1.00 23.46 C ATOM 6059 CG GLU B 355 27.097 6.173 68.008 1.00 25.71									68.142		C
ATOM 6044 CZ PHE B 354 19.861 -0.976 69.308 1.00 24.11 C ATOM 6046 CE2 PHE B 354 19.837 0.206 70.052 1.00 24.26 C ATOM 6048 CD2 PHE B 354 20.793 1.177 69.830 1.00 23.71 C ATOM 6050 C PHE B 354 22.879 4.475 67.824 1.00 22.76 C ATOM 6051 O PHE B 354 22.102 5.260 68.340 1.00 23.11 O ATOM 6052 N GLU B 355 24.121 4.809 67.500 1.00 22.50 N ATOM 6054 CA GLU B 355 24.564 6.197 67.547 1.00 22.65 C ATOM 6056 CB GLU B 355 25.988 6.344 66.980 1.00 23.46 C ATOM 6059 CG GLU B 355 27.097 6.173 68.008 1.00 25.71 C			CE1	. PHE	В	354	20.841	-1.166	68.358	1.00 22.86	
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ATOM 6050 C PHE B 354 22.879 4.475 67.824 1.00 22.76 C ATOM 6051 O PHE B 354 22.102 5.260 68.340 1.00 23.11 O ATOM 6052 N GLU B 355 24.121 4.809 67.500 1.00 22.50 N ATOM 6054 CA GLU B 355 24.564 6.197 67.547 1.00 22.65 C ATOM 6056 CB GLU B 355 25.988 6.344 66.980 1.00 23.46 C ATOM 6059 CG GLU B 355 27.097 6.173 68.008 1.00 25.71 C	MOTA	6046									C
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MION 0002 CD GUD 333 20.432 3.142 01.410 1.00 23.42 C											
	ATOM	0002		الرق	, 13	·	20.432	J. 142	01.410	. 1.00 25.42	Č

ATOM	6063	OE1	GLU	В	355		29.424	5.673	60 107	1 00 00 00
ATOM	6064			В	355				68.197	1.00 32.31
ATOM	6065	C	GLU		355		28.501	5.470	66.185	1.00 31.81
ATOM	6066	•					23.621	7.115	66.761	1.00 22.10
		0	GLU		355		23.160	8.122	67.282	1.00 22.03
ATOM	6067	N	PHE		356	•	23.341	6.767	65.506	1.00 21.38
MOTA	6069	CA	PHE		356		22.485	7.588	64.668	1.00 21.28
ATOM	6071	CB	PHE	В	356		22.400	6.997	63.248	1.00 21.26
ATOM	6074	CG	PHE		356		21.411	7.703	62.349	
ATOM	6075		PHE	Ē	356		21.728			1.00 19.88
ATOM	6077	CE1			356			8.922	61.765	1.00 20.32
ATOM	6079	CZ	PHE				20.799	9.572	60.929	1.00 19.72
ATOM	6081				356		19.551	8.977	60.686	1.00 19.12
•			PHE		356		19.240	7.769	61.280	1.00 19.42
ATOM	6083	CD2			356		20.165	7.140	62.093	1.00 18.90
MOTA	6085	С	PHE		356		21.083	7.753	65.278	1.00 21.70
ATOM	6086	0	PHE		356		20.522	8.848	65.286	1.00 21.32
ATOM	6087	N·	SER	В	357		20.537	6.665	65.818	1.00 22.22
MOTA	6089	CA	SER	В	357		19.198	6.693	66.379	1.00 22.34
ATOM	6091	CB	SER		357		18.761	5.297	66.834	
ATOM	6094	OG	SER		357		18.850		65.770	1.00 22.15
ATOM	6096	C	SER		357		19.121			1.00 20.39
ATOM	6097	ŏ	SER		357			7.674	67.545	1.00 23.09
ATOM	6098						18.152	8.427	67.651	1.00 22.79
		N	ARG		358		20.133	7.681	68.418	1.00 23.94
ATOM	6100	CA	ARG		358		20.055	8.569	69.578	1.00 25.01
ATOM	6102	CB	ARG		358		20.892	8.095	70.784	1.00 25.27
ATOM	6105	CG	ARG		358		22.385	8.167	70.684	1.00 27.29
ATOM	6108	CD	ARG	В	358	•	23.090	7.636	71.963	1.00 29.36
ATOM	6111	NE	ARG	В	358		23.411	6.218	71.837	1.00 31.12
ATOM	6113	CZ	ARG	В	358		24.583	5.717	71.431	1.00 32.37
ATOM	6114	NH1	ARG		358		25.612	6.508	71.116	1.00 32.37
ATOM	6117		ARG		358		24.727	4.395		
MOTA	6120	C	ARG		358		20.314		71.336	1.00 32.81
ATOM	6121	ŏ	ARG		358			10.010	69.171	1.00 24.86
ATOM	6122	N	ALA		359		19.812	10.920	69.815	1.00 24.77
ATOM	6124	CA					21.028	10.213	68.064	1.00 25.00
ATOM	6126		ALA		359		21.193	11.559	67.510	1.00 25.04
ATOM ·	6130	CB	ALA		359		22.292	11.581	66.462	1.00 25.27
ATOM		C	ALA		359		19.866	12.069	66.946	1.00 25.27
	6131	0	ALA		359		19.472	13.211	67.213	1.00 24.83
ATOM	6132	N			360		19.163	11.205	66.208	1.00 25.58
ATOM	6134	CA			360		17.848	11.524	65.692	1.00 26.02
ATOM	6136	CB	MET		360		17.311	10.355	64.891	1.00 26.75
ATOM	6139	CG	MET	В	360		17.865	10.264	63.462	1.00 26.69
MOTA	6142	SD	MET	В	360		17.600	11.773	62.530	1.00 26.78
ATOM	6143	CE	MET		360		15.878	11.818	62.334	1.00 29.20
ATOM	6147	С	MET				16.870	11.875	66.805	
ATOM	6148	0	MET				16.050	12.758	66.648	
MOTA	6149	N	ARG				16.975	11.221		1.00 27.29
ATOM	6151	CA	ARG	- B	361				67.950	1.00 28.14
ATOM	6153	CB	VDC	ם	361		16.062	11.498	69.052	1.00 29.35
ATOM	6156		ARG	ם	201		16.202	10.452	70.169	1.00 29.79
ATOM		CG	ARG	B	301		14.909	10.252	70.977	1.00 32.56
	6159	CD	ARG	B	367		14.982	10.424	72.510	1.00 33.68
MOTA	6162	NE	ARG				15.990	11.386	72.937	1.00 36.77
MOTA	6164	CZ	ARG	В	361		16.081	11.895	74.152	1.00 39.67
MOTA	6165	NH1	ARG	В	361		15.210	11.563	75.105	1.00 41.48
MOTA	6168		ARG	В	361		17.049	12.766	74.417	1.00 42.15
MOTA	6171	С	ARG	В	361		16.246	12.903	69.621	1.00 29.48
ATOM	6172	0	ARG				15.260	13.539	69.984	1.00 29.48
ATOM	6173	N	ARG				17.489	13.394	69.692	1.00 29.69
ATOM	6175	CA	ARG				17.754	14.740		1 00 20 22
MOTA	6177	CB	ARG				19.255	15.033	70.221	1.00 29.26
ATOM	6180	CG	ARG				20.021		70.233	1.00 29.68
ATOM	6183	CD	ARG				21.494	14.231	71.246	1.00 31.69
		~-	-410	_	J 02		£1.474	14.550	71.257	1.00 34.31

ATOM ATOM ATOM	6186 6188 6189	CZ NH1	ARG ARG ARG	B B	362 362	22.297 23.121 23.289	13.329 12.930 13.642	71.265 70.302 69.186	1.00 37.98 1.00 39.97 1.00 41.73	N C N
ATOM	6192		ARG			23.790	11.795	70.459	1.00 40.75 1.00 28.31	N C
ATOM ATOM	6195 6196		ARG ARG			17.060 16.831	15.871 16.967	69.446 69.983	1.00 28.31	0
ATOM	6197	N	LEU			16.780	15.615	68.178	1.00 26.86	N
ATOM	6199	CA	LEU		363	16.062	16.560	67.347	1.00 26.19	Ĉ
ATOM	6201	CB	LEU			16.284	16.250	65.863	1.00 26.56	С
ATOM	6204	CG	LEU			17.691	16.558	65.383	1.00 25.98	С
MOTA	6206		LEU		363	17.832	16.210	63.925	1.00 26.41	С
MOTA	6210					17.982	18.007	65.616	1.00 28.05	. C
MOTA	6214	C	LEU			14.583	16.548	67.632	1.00 25.35	· C
ATOM	6215	0	LEU		363	13.912	17.494	67.326 68.163	1.00 25.36 1.00 24.96	O N
ATOM ATOM	6216 6218	N CA	GLY GLY			14.061 12.648	15.456 15.379	68.501	1.00 24.36	Č
ATOM	6221	C	GLY			11.724	15.691	67.343	1.00 23.80	c
ATOM	6222	ŏ	GLY			10.814	16.502	67.481	1.00 24.22	. 0
ATOM	6223	N	LEU			11.953	15.056	66.195	1.00 23.27	N
ATOM	6225	CA	LEU	В	365	11.122	15.300	65.028	1.00 23.05	С
MOTA	6227	CB	LEU			11.695	14.622	63.777	1.00 22.95	· c
MOTA	6230	CG	LEU			13.100	14.889	63.236	1.00 24.40	C
ATOM	6232		LEU			13.116	14.608	61.771	1.00 26.37 1.00 25.76	C
ATOM ATOM	6236 6240	CD2	LEU LEU			13.574 9.713	16.268 14.754	63.444 65.254	1.00 23.76	C
ATOM	6241	0			365	9.541	13.661	65.776	1.00 21.66	ő
ATOM	6242	N			366	8.716	15.503	64.821	1.00 22.33	N
ATOM	6244	CA			366	7.357	14.999	64.806	1.00 22.52	С
ATOM	6246	CB	ASP	В	366	6.358	16.137	65.116	1.00 22.86	С
MOTA	6249	CG			366	6.347	17.260	64.089	1.00 23.02	C
MOTA	6250		ASP			6.755	17.051	62.929	1.00 24.65	0
ATOM	6251		ASP			5.909 7.066	18.405 14.218	64.382 63.490	1.00 23.11 1.00 22.72	0 C
ATOM ATOM	6252 6253	С 0	ASP		366 366	8.012	13.887	62.722	1.00 22.72	o
ATOM	6254	N	ASP			5.800	13.881	63.262	1.00 21.59	N
ATOM	6256	CA	ASP			5.362	13.148	62.071	1.00 21.79	С
MOTA	6258	CB	ASP			3.845	12.838	62.134	1.00 22.31	C
MOTA	6261	CG			367	3.471	11.840	63.205	1.00 23.80	Ç
MOTA	6262		ASP			4.366	11.222	63.788	1.00 25.82	0
MOTA	6263		ASP			2.275	11.591	63.517 60.760	1.00 29.95 1.00 21.22	. O
ATOM ATOM	6264 6265	C			367 367	5.570 5.936	13.895 13.290	59.780	1.00 21.22	Ö
ATOM	6266	O N	ALA			5.231	15.178	60.725	1.00 21.32	N
ATOM	6268	CA			368	5.378	16.003	59.521	1.00 21.50	С
ATOM	6270	СВ			368	4.779	17.356	59.731	1.00 21.08	С
MOTA	6274	С			368	6.861	16.145	59.141	1.00 22.22	C
ATOM	6275	0			368	7.217	16.110	57.970	1.00 22.94	0
ATOM	6276	N			369	7.724	16.275	60.140		Й
MOTA	6278	CA			369	9.144 9.855	16.389 16.904	59.878 61.119	1.00 21.28 1.00 20.76	C
MOTA MOTA	6280 6283	CB CG			369 369	9.515	18.345	61.390		č
ATOM	6286	CD			369	9.953	18.786	62.760		Ċ
ATOM	6287				369	10.285	19.973	62.899		0
MOTA	6288				369	9.964	17.950	63.697		0
MOTA	6289	С			369	9.804	15.099	59.373		C
MOTA	6290	0			369	10.580	15.172	58.454		0
ATOM	6291	N			370	9.520	13.943	59.994		N C
ATOM ATOM	6293 6295	CA CB			3 370 3 370	9.988 9.540	12.643 11.471	59.473 60.364		c
ATOM	6298	CG			370	10.539		61.446		č
ATOM-	6299				3 370	 10.303	11.338	62.823		Č
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ATOM	6431	CD1	ILE I	R 1	378	10.412	8.370	49.038	1 00	23.80		С
ATOM	6435		ILE !		378	11.714	9.248	46.466		20.06		č
ATOM	6439		ILE !		378	14.164	10.713	46.655		20.30		č
MOTA	6440				378	14.673	10.146	45.685	_	20.64		ŏ
ATOM	6441				379	13.975	12.032	46.688		20.97		N
ATOM	6443				379	14.327	12.868	45.533		20.85		Č
	6445				379	13.307	13.978	45.325		21.03		C
MOTA												C
ATOM	6448	CG			379	11.938	13.483	45.028		18.73		0
ATOM	6449		PHE			10.895	13.715	45.904		19.42		C
ATOM	6451		PHE			9.595	13.260	45.618		18.25		C
ATOM	6453	CZ	PHE			9.358	12.588	44.424		19.28		C
MOTA	6455		PHE			10.394	12.365	43.550		19.35		C
ATOM	6457		PHE			11.675	12.824	43.848		20.53		C
ATOM	6459	С	PHE		379	15.734	13.437	45.618		21.55		C
MOTA	6460	0	PHE		379	15.928	14.630	45.451		21.95		0
MOTA	6461	N	SER			16.716	12.566	45.849		22.01		N
ATOM	6463	CA	SER		380	18.141	12.921	45.766		22.48		С
MOTA	6465	CB	SER		380	18.977	12.086	46.752		22.20		С
MOTA	6468	OG	SER		380	18.295	11.940	47.977		21.09		0
MOTA	6470	С	SER		380	18.678	12.677	44.389		22.12	•	С
MOTA	6471	0	SER		380	18.734	11.575	43.966		22.42		0
MOTA	6472	N	ALA	В	381	19.158	13.709	43.728	1.00	24.24		N
MOTA	6474	CA	ALA		381	19.547	13.663	42.304		24.67		С
MOTA	6476	CB	ALA		381	19.458	15.063	41.711		24.77		С
MOTA	6480	С	ALA	В	381	20.937	13.107	42.055		25.40		С
MOTA	6481	0	ALA	В	381	21.322	12.885	40.900		26.89		0
MOTA	6482	N	ASP			21.715	12.895	43.110		24.87		N
ATOM	6484	CA	ASP		382	23.031	12.317	42.942	1.00	24.87		С
MOTA	6486	CB	ASP	В	382	23.974	12.947	43.964	1.00	25.09		С
ATOM	6489	CG	ASP	В	382	23.696	12.451	45.357	1.00	26.78		С
ATOM	6490	OD1	ASP	В	382	22.509	12.291	45.704	1.00	28.37		0
MOTA	6491	OD2	ASP	В	382	24.589	12.135	46.160	1.00	28.69		0
ATOM	6492	С	ASP	В	382	23.066	10.776	43.074	1.00	24.13		C
ATOM	6493	0	ASP	В	382	24.125	10.200	43.316	1.00	24.36		0
ATOM	6494	N	ARG	В	383	21.928	10.095	42.957	1.00	23.11		N
MOTA	6496	CA	ARG	В	383	21.933	8.634	43.049	1.00	21.78		С
MOTA	6498	CB	ARG	В	383	20.518	8.111	43.232	1.00	21.83		С
ATOM	6501	CG	ARG	В	383	19.814	8.623	44.440	1.00	20.99		С
ATOM	6504	CD	ARG		383	20.545	8.433	45.741	1.00	20.33		С
MOTA	6507	NE	ARG		383	19.596		46.864	1.00	21.84		N
MOTA	6509	CZ	ARG	В	383	. 19.918	8.333	48.131	1.00	21.53		. C
ATOM	6510	NH1	ARG	В	383	21.145	8.007	48.472	1.00	20.87		N
MOTA	6513	NH2	ARG	В	383	18.980	8.408	49.059	1.00	23.87		N
MOTA	6516	С	ARG	В	383	22.505	8.056	41.760	1.00	21.41		С
MOTA	6517	0	ARG	В	383	22.374	8.667	40.709	1.00	21.61		0
ATOM	6518	N	PRO	В	384	23.090	6.869	41.801	1.00	20.87		N
MOTA	6519	CA	PRO	В	384	23.582	6.251	40.559	1.00	20.64		С
MOTA	6521	CB	PRO	В	384	24.368	5.002	41.035	1.00	20.73		С
ATOM	6524	CG	PRO	В	384	24.050	4.814	42.506	1.00	20.95		С
ATOM	6527	CD	PRO	В	384	23.284	6.012	42.984	1.00	20.98		С
MOTA	6530	C	PRO	В	384	22.442	5.862	39.582	1.00	19.58		С
MOTA	6531	0	PRO	В	384	21.321	5.562	39.988	1.00	19.38		0
MOTA	6532	N			385	22.773	5.923	38.300		19.15		N
ATOM	6534	CA			385	21.928	5.546	37.187	1.00	18.87		С
MOTA	6536	CB			385	21.539		37.266	1.00	19.17		С
ATOM	6539	CG			385	22.741		37.378		19.97		С
MOTA	6540	OD1	ASN			22.846		38.322	1.00	23.24		0
MOTA	6541		ASN			23.634		36.422		19.17		N
MOTA	6544	С			385	20.677		37.009		18.90	-	. C
ATOM	6545	0			385	19.758		36.312		19.01		0
ATOM	6546	N			386	20.630		37.609		18.05		N

ATOM	6548	CA	VAL B	386	19.492	8.466	37.390	1.00 18.00
ATOM	6550	CB	VAL B		19.341	9.452	38.535	1.00 17.77
ATOM	6552		VAL B		18.322	10.502	38.195	1.00 17.77
ATOM	6556		VAL B		18.920	8.706		
ATOM	6560	C	VAL B		19.667		39.830	1.00 18.13
ATOM	6561	0	VAL B			9.161	36.023	1.00 18.53
ATOM	6562	N	GLN B		20.736	9.692	35.730	1.00 18.62
ATOM	6564	•			18.632	9.112	35.179	1.00 18.75
		CA	GLN B		18.670	9.694	33.829	1.00 18.96
ATOM	6566	CB	GLN B		17.850	8.854	32.889	1.00 19.60
ATOM	6569	CG	GLN B		18.514	7.502	32.605	1.00 23.43
MOTA	6572		GLN B		17.662	6.666	31.704	1.00 27.31
ATOM	6573		GLN B		17.705	6.860		1.00 33.18
ATOM	6574	•	GLN B		16.866	5.751	32.272.	1.00 26.97
ATOM	6577	С	GLN B		18.188	11.128		1.00 18.62
ATOM	6578	0	GLN B		18.598	11.841	32.854	1.00 17.67
MOTA	6579	Ν.	GLU B		17.328	11.555	34.672	1.00 18.51
ATOM	6581	CA	GLU B	388	16.893	12.948	34.726	1.00 18.71
ATOM	6583	CB	GLU B		15.406	13.064	34.376	1.00 19.03
MOTA	6586	CG	GLU B	388	15.119	12.747		1.00 20.30
ATOM	6589	CD	GLU B	388	13.677	12.993	32.593	1.00 21.79
ATOM .	6590	OE1	GLU B	388	12.907	12.005	32.582	1.00 24.61
MOTA	6591	OE2	GLU B	388	13.324	14.167	32.345	1.00 20.18
ATOM	6592	С	GLU B		17.173	13.573	36.091	1.00 18.20
ATOM	6593	0	GLU B		16.247	13.948	36.787	1.00 17.43
MOTA	6594	N	PRO B		18.453	13.702	36.462	1.00 18.44
ATOM	6595	CA	PRO B		18.815	14.248	37.773	1.00 18.55
MOTA	6597	CB	PRO E		20.346	14.213	37.776	1.00 19.60
ATOM	6600	CG	PRO E		20.783	13.940	36.330	1.00 17.71
ATOM	6603	CD	PRO E		19.641	13.313	35.664	1.00 17.71
ATOM	6606	C	PRO E		18.303	15.665	38.029	1.00 17.77
ATOM	6607	Ō	PRO E		17.938	15.957	39.172	1.00 20.06
ATOM	6608	N	GLY E		18.252	16.525	37.018	1.00 20.06
ATOM	6610	CA	GLY E		17.707	17.878	37.178	1.00 18.72
ATOM	6613	C	GLY E		16.244	17.849	37.526	1.00 18.72
ATOM	6614	Õ	GLY E		15.744	18.568	38.368	1.00 19.36
ATOM	6615	N	ARG E		15.545	16.955	36.876	1.00 19.36
ATOM	6617	CA	ARG E		14.146	16.715	37.160	1.00 19.62
ATOM	6619	СВ	ARG E		13.645	15.740	36.124	1.00 20.13
ATOM	6622	CG	ARG E		12.195	15.593	36.124	1.00 20.61
ATOM	6625	CD	ARG E		11.492	16.493	35.187	
ATOM	6628	NE	ARG E		10.232	15.812	34.933	1.00 29.28 1.00 34.22
ATOM	6630	CZ	ARG E		9.037	16.308	35.165	1.00 34.22
ATOM	6631		ARG E		8.862	17.557	35.639	1.00 37.37
ATOM	6634		ARG E		7.999	15.534	34.887	
MOTA	_	C	ARG E		13.904			1.00 39.85
ATOM	6638	ŏ	ARG E		12.973	16.196 16.602	38.573 39.248	1.00 19.58 1.00 20.55
ATOM	6639	Ň	VAL E		14.766	15.327		
ATOM	6641	CA	VAL E		14.648	14.844	39.057	1.00 19.61
ATOM	6643	CB	VAL E		15.645		40.428	1.00 19.35
ATOM	6645		VAL E		15.677	13.683	40.694	1.00 19.17
ATOM	6649		VAL E			13.306	42.168	1.00 17.59
ATOM	6653	C	VAL E		15.276	12.483	39.856	1.00 19.32
ATOM	6654	Ö	VAL E		14.889	15.984	41.415	1.00 19.99
ATOM	6655	И	GLU E		14.266	16.037	42.462	1.00 19.77
ATOM	6657	ĊA	GLU E		15.814	16.880	41.102	1.00 21.29
ATOM	6659	CB	GLU E	3 3 3 3	16.120	17.986	41.998	1.00 22.72
ATOM	6.662	CG	GLU E		17.387	18.707	41.562	1.00 23.91
ATOM	6665	CD	GLU E		17.816	19.798	42.531	1.00 27.69
ATOM	6666	OE1		302	19.290	20.112	42.440	1.00 33.96
ATOM	6667	OE2			19.993	19.930	43.467	1.00 40.25
ATOM	6668	C	GLU E	303	19.751 14.975	20.546	41.346	1.00 37.57
111 014	5500	•	ם טעט	3 3 3 3	14.9/3	18.957	42.032	1.00 22.64
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MOTA	6669	0	GLU	B	393	14.656	19.485	43.076	1 00 24 10	_
ATOM	6670								1.00 24.10	-
		N	ALA			14.320	19.166	40.900	1.00 22.81	
ATOM	6672	CA	ALA			13.176	20.066	40.863	1.00 22.69	C
ATOM	6674	CB	ALA	В	394	12.795	20.396	39.450	1.00 22.06	
ATOM	6678	C	ALA							
						11.981	19.467	41.617	1.00 23.03	
ATOM	6679	0	ALA	В	394	11.202	20.231	42.181	1.00 23.92	0
ATOM	6680	N	LEU	В	395	11.816	18.131	41.634	1.00 22.54	
ATOM	6682	CA	LEU							
						10.742	17.525	42.445	1.00 21.91	
ATOM	6684	CB	LEU			10.406	16.116	41.975	1.00 22.77	С
ATOM	6687	CG	LEU	В	395	9.971	15.956	40.516	1.00 24.05	
ATOM	6689	CD1	LEU		395	9.943	14.498	40.103		
									1.00 27.97	
MOTA	6693		LEU			8.618	16.573	40.261	1.00 25.94	С
ATOM	6697	С	LEU	В	395	11.065	17.528	43.939	1.00 21.66	
ATOM	6698	0	LEU	В	395	10.176	17.494	44.774	1.00 22.24	
ATOM	6699	N	GLN			12.342				_
						12.342	17.606	44.282	1.00 21.70	
ATOM	6701	CA	GLN			12.774	17.642	45.662	1.00 21.46	c
ATOM	6703	CB	GLN	В	396	14.290	17.407	45.748	1.00 21.16	
MOTA	6706	CG			396	14.762	17.278	47.157		
ATOM									1.00 19.91	
	6709	CD			396	16.242	17.271	47.304	1.00 18.53	
ATOM	6710	OE1	GLN	В	396	16.814	16.357	47.872	1.00 21.58	0
ATOM	6711	NE2	GLN	В	396	16.853	18.307	46.880	1.00 19.04	
ATOM	6714	С			396	12.512	18.999			
								46.310	1.00 22.42	
ATOM	6715	0			396	12.311	19.083	47.531	1.00 22.74	. 0
ATOM	6716	N	GLN			12.609	20.059	45.515	1.00 21.79	N
ATOM	6718	CA	GLN	В	397	12.642	21.406	46.061	1.00 22.10	
ATOM	6720	СВ			397	12.921	22.426	44.932	1.00 21.93	
ATOM	6723	CG			397	12.340	23.784	45.175	1.00 25.00	
MOTA	6726	CD	GLN	В	397	12.712	24.823	44.098	1.00 27.36	C
ATOM	6727	OE1	GLN	В	397	13.741	24.712	43.446	1.00 29.73	
ATOM	6728		GLN			11.843	25.817	43.907		
									1.00 28.44	
ATOM	6731	С			397	11.399	21.804	46.892	1.00 21.10	
MOTA	6732	0	GLN	В	397	11.548	22.460	47.924	1.00 20.27	0
MOTA	.6733	N	PRO	В	398	10.197	21.491	46.413	1.00 20.27	
ATOM	6734	CA			398	8.978	21.775			
								47.170	1.00 20.48	
ATOM	6736	CB			398	7.853	21.157	46.285	1.00 20.46	
MOTA	6739	CG	PRO	В	398	8.399	21.083	44.907	1.00 20.28	C
ATOM	6742	CD	PRO	В	398	9.897	20.933	45.078	1.00 20.66	
ATOM	6745	C			398	8.955	21.149			
								48.595	1.00 20.52	
ATOM	6746	0			398	8.406	21.758	49.513	1.00 19.86	0
ATOM	6747	N	TYR	В	399	9.513	19.947	48.736	1.00 19.95	N
MOTA	6749	CA	TYR	В	399	9.694	19.267	50.017	1.00 19.66	
ATOM	6751	СВ			399	10.095	17.794			
								49.771	1.00 19.96	
ATOM	6754	CG			399	8.992	17.060	49.082	1.00 20.60	
MOTA	6755	CD1	TYR	В	399	9.067	16.731	47.722	1.00 21.38	С
ATOM	6757	CE1	TYR	В	399	7.972	16.080	47.079	1.00 20.43	
ATOM	6759	CZ	ΨYR	P	399	6.844	15.797	47.808		
ATOM									1.00 18.83	
	6760	ОН			399	5.769	15.177	47.250	1.00 21.91	
ATOM	6762	CE2	TYR	В	399	6.764	16.139	49.136	1.00 18.87	C
ATOM	6764	CD2	TYR	В	399	7.815	16.777	49.758	1.00 18.80	
ATOM	6766	С			399	10.702	19.951			
								50.936	1.00 19.16	
ATOM	6767	0			399	10.465	20.049	52.148	1.00 18.16	0
MOTA	6768	N	VAL	В	400	11.812	20.431	50.376	1.00 18.94	N
ATOM	6770	CA	VAL	В	400	12.788	21.216	51.140	1.00 18.36	
ATOM	6772	СВ			400	14.078	21.510			
								50.338	1.00 18.34	
ATOM	6774		VAL			15.057	22.361	51.158	1.00 17.60	
MOTA	6778		VAL			14.805	20.218	49.978	1.00 18.78	C
ATOM	6782	С	VAL	В	400	12.126	22.509	51.633	1.00 19.10	
ATOM	6783	0			400	12.266	22.901	52.793	1.00 18.63	
ATOM	6784	N			401	11.363	23.137			
								50.752	1.00 19.95	
ATOM	6786	CA			401	10.660	24.396	51.040	1.00 20.81	
ATOM	6788	CB	GLU	В	401	9.980	24.887	49.769	1.00 21.64	C
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ATOM	6791	CG	GLU B	401		9.504	06 204	40 700		
ATOM	6794	CD	GLU B			10.501	26.324 27.293	49.799 49.155	1.00 27.75	
ATOM	6795		GLU B	401		10.588	28.481	49.617	1.00 36.68 1.00 38.68	
ATOM	6796	OE2				11.197	26.868	48.179	1.00 30.00	
ATOM	6797	С	GLU B		•	9.629	24.230	52.155	1.00 19.84	•
ATOM ATOM	6798 [°] 6799	0	GLU B			9.589	25.014	53.106	1.00 18.68	
ATOM	6801	N CA	ALA B			8.838	23.157	52.064	1.00 19.81	
ATOM	6803	CB	ALA B			7.834 6.939	22.859	53.078	1.00 19.56	
ATOM	6807	Ċ	ALA B			8.477	21.709 22.517	52.631	1.00 19.65	•
ATOM	6808	0	ALA B			7.937	22.861	54.406 55.450	1.00 19.45	٠.
ATOM	6809	N	LEU B	403		9.602	21.803	54.382	1.00 19.63 1.00 18.88	
MOTA	6811	CA	LEU B			10.291	21.515	55.623	1.00 18.91	
ATOM ATOM	6813	CB	LEU B			11.403	20.485	55.442	1.00 18.51	
ATOM	6816 6818	CG CD1	LEU B			12.064	19.983	56.718	1.00 17.83	
ATOM	6822	CD2	LEU B	403		11.007	19.509	57.721	1.00 17.29	
ATOM	6826	C	LEU B			13.053 10.864	18.855 22.799	56.391	1.00 17.18	
MOTA	6827	0	LEU B			10.836	22.799	56.222 57.445	1.00 19.30 1.00 19.32	•
ATOM	6828	N	LEU B	404		11.349	23.710	55.385	1.00 19.32	
MOTA	6830	CA	LEU B			11.908	24.971	55.893	1.00 19.83	
ATOM ATOM	6832	CB	LEU B			12.582	25.758	54.769	1.00 19.82	
ATOM	6835 6837	CG CD1	LEU B			13.162	27.133	55.082	1.00 21.43	
ATOM	6841	CD2				14.160 13.827	27.114	56.223	1.00 21.67	
ATOM	6845	C	LEU B			10.814	27.664 25.826	53.830 56.544	1.00 23.49	
MOTA	6846	0	LEU B			10.966	26.280	57.675	1.00 20.14 1.00 19.85	
ATOM	6847	N	SER B			9.711	26.025	55.824	1.00 19.85	
ATOM	6849	CA	SER B			8.570	26.776	56.344	1.00 21.10	
ATOM ATOM	6851 6854	CB OG	SER B			7.494	26.874	55.286	1.00 20.99	
ATOM	6856	C	SER B SER B			7.940	27.728	54.257	1.00 22.98	•
ATOM	6857	ŏ				7.968 7.627	26.162 26.881	57.598	1.00 21.36	
ATOM	6858	N	TYR B			7.848	24.832	58.513 57.629	1.00 20.94 1.00 21.51	
ATOM.	6860	CA	TYR B			7.295	24.124	58.776	1.00 21.51	
ATOM	6862	CB				7.098	22.638	58.440	1.00 22.05	
ATOM ATOM	6865 6866	CG	TYR B			6.431	21.844	59.542	1.00 23.67	
ATOM	6868	CD1 CE1	TYR B TYR B			5.043	21.693	59.585	1.00 24.99	
ATOM	6870	CZ	TYR B			4.432 5.221	20.986 20.429	60.609	1.00 25.66	
MOTA	6871	OH .	TYR B			4.665	19.720	61.607 62.646	1.00 26.80	
MOTA	6873	CE2		406		6.597	20.568	61.566	1.00 26.38 1.00 26.07	
ATOM	6875	CD2	TYR B	406		7.187	21.268	60.546	1.00 24.46	
ATOM ATOM	6877 6878	C	TYR B			8.160	24.280	60.035	1.00 21.46	
ATOM	6879	O N	TYR B			7.628	24.611	61.082	1.00 20.76	
MOTA	6881	CA	THR B			9.479 10.380	24.056	59.935	1.00 22.12	
ATOM	6883	CB	THR B			11.845	24.170 23.693	61.104 60.845	1.00 22.52	
MOTA	6885	OG1				12.375	24.291	59.659	1.00 22.07 1.00 21.27	
MOTA	6887	CG2				11.918	22.218	60.585	1.00 21.27	
ATOM	6891	C	THR B			10.423	25.587	61.628	1.00 23.40	
ATOM ATOM	6892 6893	О И	THR B			10.545	25.776	62.818	1.00 23.34	
ATOM	6895	CA	ARG B			10.318	26.566	60.730	1.00 24.83	
ATOM	6897	CB	ARG B			10.251 10.133	27.989 28.857	61.095	1.00 26.16	
ATOM	6900	CG	ARG B			11.422	29.169	59.849 59.213	1.00 26.47 1.00 29.07	
ATOM	6903	CD	ARG B	408		11.316	30.145	58.080	1.00 29.07	
ATOM	6906	NE	ARG B	408		12.639	30.395	57.520	1.00 35.02	
ATOM ATOM	6908 6909	CZ	ARG B	408		12.875	30.989	56.355	1.00 39.86	
ATOM	6912	инэ	ARG B	4U8 400		11.870	31.415	55.590	1.00 40.48	
			ביינט ב	300		14.138	31.162	55.955	1.00 41.20	
								•		

ATOM	6915	С	ARG E	3 408	9.0	46	28.312	61.947	1.00 2	26.90		С
ATOM	6916		ARG E	3 408	9.1		29.145	62.856	1.00 2	26.25		0
ATOM	6917	N	ILE E	3 409	7.9	25	27.687	61.596	1.00	27.89		N
ATOM	6919	CA	ILE E		6.6	557	27.927	62.273	1.00	28.59		С
MOTA	6921	CB	ILE E	3 409	5.5	500	27.609	61.305	1.00			С
ATOM	6923				5.9	513	28.615	60.148	1.00	27.22		С
ATOM	6926		ILE E		4.	730	28.171	58.934	1.00	27.40		С
MOTA	6930			3 409		154	27.569	62.041	1.00	28.50		С
MOTA	6934	С	ILE I			551	27.138	63.583	1.00			С
ATOM	6935	Ō	ILE !			997	27.639	64.549	1.00	30.01		0
ATOM	6936	N	LYS			121	25.939	63.631	1.00	30.86		N
ATOM	6938	CA	LYS			988	25.066	64.797	1.00	32.21		С
ATOM	6940	CB	LYS			166	23.588	64.418	1.00	32.45		С
ATOM	6943	CG		B 410	8.	221	22.814	65.260	1.00	33.99		С.
MOTA	6946	CD	LYS			114	21.286	65.125		34.20		С
MOTA	6949	CE		B 410		522	20.586	66.421	1.00	35.09		С
MOTA	6952	NZ.		B 410		397	19.084	66.286	1.00	36.30		N
ATOM	6956	C		B 410		941	25.437	65.930	1.00	33.27		С
ATOM	6957	ō		B 410		521	25.534	67.095	1.00	33.79		0
ATOM	6958	N	ARG			222	25.606	65.609	1.00	34.33		N
ATOM	6960	CA		B 411		206	26.083	66.585	1.00	35.18		С
ATOM	6962	CB		B 411		248	25.004	66.924	1.00	35.80		С
MOTA	6965	CG		B 411		683	23.741	67.611	1.00	38.53		С
ATOM	6968	CD	ARG			853	23.665	69.160	1.00	42.62		С
ATOM	6971	NE		B 411		101	22.280	69.612	1.00	46.02		N
MOTA	6973	CZ	ARG			300	21.662	69.621	1.00	47.66		С
ATOM	6974		ARG			408	22.293	69.223	1.00	48.31		N
ATOM	6977		ARG			393	20.401	70.043	1.00			N
ATOM	6980	C	ARG			872	27.325	66.019		34.97		С
ATOM	6981	ŏ		B 411		978	27.258	65.483		34.95		0
ATOM	6982	N	PRO			201	28.469	66.141	1.00			N
MOTA	6983	CA	PRO			704	29.715	65.549		34.89		С
ATOM	6985	CB	PRO			532	30.689	65.734	1.00	34.62		С
ATOM	6988	CG	PRO			753	30.151	66.866	1.00			C
ATOM	6991	CD	PRO			924	28.675	66.855	1.00	34.87		С
ATOM	6994	C	PRO			961	30.253	66.217	1.00			С
MOTA	6995	ŏ	PRO			562	31.173	65.662	1.00	35.08		0
ATOM	6996	Ñ		B 413		345	29.710	67.373	1.00	35.40		N
ATOM	6998	CA		B 413		. 527	30.198	68.087	1.00	35.71		С
ATOM	7000	CB	GLN			.146	30.691	69.495	1.00	35.93		С
ATOM	7003	CG	GLN			.139	31.862	69.503	1.00	36.43		C
ATOM	7006	CD		B 413		.742	33.189	69.037	1.00	37.27		С
ATOM	7007	OE1				.480	33.649	67.918	1.00	37.13		0
ATOM	7008			B 413		.538	33.812	69.901	1.00	38.43		N
ATOM	7011	C		B 413		.677	29.183	68.151	1.00	35.33		C
ATOM	7012	ŏ		B 413		.675	29.438	68.820		35.84		0
ATOM	7013	N		B 414		.544	28.049	67.461	1.00	34.73		N
ATOM	7015	CA		B 414		.691	27.174	67.172	1.00	34.14		С
ATOM	7017	CB		B 414		.466	25.727	67.632		34.43		С
ATOM	7020	CG		B 414		.752	24.886			35.47		С
ATOM	7021			B 414		.799	25.376			36.59		0
ATOM	7022			B 414		.822	23.727	68.025		37.73		0
MOTA	7023			B 414		.953	27.165			32.85		С
MOTA	7023	ŏ		B 414		.444	26.313			33.10		0
ATOM	7025			B 415		.767	28.096			31.49		N
ATOM	7023			B 415		.013	28.245			30.71		С
ATOM	7027			B 415		.546	29.646			31.50		C
ATOM	7023			B 415		.044	30.228			33.44		С
ATOM	7032			B 415		.412	31.699			35.70	-	C
MOTA	7036			B 415		.661	32.462			37.83		O
MOTA	7037			B 415		.568	32.099			35.86		N
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MOTA	7040	С	GLN E	3 415	17.974	27.209	63.234	1.00 28.90	Ċ	
ATOM	7041	0	GLN E	3 415	18.068	27.069	62.026	1.00 29.27	0	
ATOM	7042	N	LEU E	3 416	18.673	26.474	64.084	1.00 27.28	. И	
ATOM	7044	CA	LEU E	3 416	19.594	25.440	63.609	1.00 26.89	C	
MOTA	7046	CB		3 416	20.804	25.382	64.523	1.00 27.08		
ATOM	7049	CG		3 416	21.479	26.755	64.628	1.00 26,37	č	
ATOM	7051		LEU E		22.711	26.643	65.452	1.00 26.65	č	
ATOM	7055		LEU E		21.777	27.334	63.233	1.00 25.68	· C	
ATOM	7059	Ç		3 416	18.987	24.057	63.457	1.00 25.00	c.	
ATOM	7060	Ö		3 416	19.645	23.137		,		
							63.022	1:00 27.07	0	
ATOM	7061	N		3 417	17.714	23.921	63.787	1.00 25.89	С С	
MOTA	7063	CA		3 417	16.989	22.667	63.651	1.00 25.07	, <b>C</b>	
ATOM	7065	CB		3 417	15.575	22.910	64.168	1.00 25.96		
MOTA	7068	CG		B 417	14.766	21.716	64.424	1.00 26.28	С	
ATOM	7071	CD		B 417	13.277	22.075	64.739	1.00 29.42	C	
MOTA	7074	NE	ARG I	B 417	12.437	20.881	64.733	1.00 26.91	. 1	N
ATOM	7076	CZ	ARG I	B 417	12.598	19.893	65.587	1.00 28.65	. С	
MOTA	7077	NH1	ARG I	B 417	13.490	19.983	66.568	1.00 28.98	N	
ATOM	7080	NH2	ARG I	B 417	11.841	18.821	65.488	1.00 30.77	N	
MOTA	7083	С	ARG I	B 417	16.901	22.186	62.222	1.00 23.66	. c	
ATOM-	7084	0		B 417	17.168	21.022	61.917	1.00 23.62	. O	
MOTA	7085	N		B 418	16.485	23.075	61.338	1.00 22.27	Ŋ	
ATOM	7087	CA		B 418	16.391	22.744	59.925	1.00 21.50	Ĉ	
ATÓM	7089	CB		B 418		23.936	59.155	1.00 21.21	č	
ATOM	7092	CG		B 418	15.686		57.702	1.00 20.80	C	
ATOM	7093			B 418		22.782	57.732	1.00 20.00	C	
ATOM	7095			B 418	14.794 14.651	22.553	55.888	1.00 21.20	C	
ATOM	7097	CZ		B 418	15.364				C	
						23.256 24.168	54.991	1.00 21.03	C	
MOTA	7099			B 418	16.253		55.426	1.00 25.19	C	
MOTA	7101			B 418	16.416		56.792	1.00 24.41	C	
ATOM	7103	C		B 418	17.735	22.214	59.338	1.00 21.50	C	
MOTA	7104	0		B 418	17.777		58.865	1.00 20.74	0	
ATOM	7105	N		B 419	18.829		59.385	1.00 22.15	N	
MOTA	7106	CA		B 419	20.128		58.932	1.00 22.23	C	
ATOM	7108	CB		B 419	21.079		59.163	1.00 22.29		
MOTA	7111	CG	PRO	B 419	20.393	24.554	60.075	1.00 22.23		
ATOM	7114	CD	PRO	B 419	18.937	24.383	59.853	1.00 21.84	С	
MOTA	7117	С	PRO	B 419	20.627	21.220	59.697	1.00 22.91	C	
MOTA	7118	0	PRO	B 419	21.330	20.411	59.094	1.00 23.03	0	
ATOM	7119	N	ARG	B 420	20.300	21.073	60.977	1.00 22.72	N	
MOTA	7121	CA	ARG	B 420	20.613	19.845	61.697	1.00 23.79		
ATOM	7123	CB		B 420	20.217		63.165	1.00 24.37		
MOTA	7126	CG		B 420	21.273		64.065	1.00 26.49		
ATOM	7129	CD		B 420			65.509	1.00 29.34	č	
ATOM	7132	NE		B 420	21.635			1.00 31.75		
ATOM	7134	CZ		B 420	21.210		66.920	1.00 34.22	c C	
ATOM	7135			B 420	19.905	22.942	67.170	1.00 35.33		
ATOM	7138			B 420	22.105		67.434	1.00 33.74		
ATOM	7141	C		B 420	19.881					
ATOM							61.109	1.00 23.97		
	7142	0		B 420			61.041	1.00 23.43		
MOTA	7143	N		B 421			60.702	1.00 24.27		
ATOM	7145	CA		B 421	17.877		60.048	1.00 25.13		
MOTA	7147	CB		B 421			59.705	1.00 25.14		
ATOM	7150	CG		B 421			60.884	1.00 26.83		
ATOM	7153	SD		B 421			60.489	1.00 27.49		i
ATOM	7154	CE		B 423			59.650	1.00 28.40		:
ATOM	7158	С	MET	B 421			58.750	1.00 25.25		;
ATOM	7159	0	MET	B 423	18.675	16.104	58.484	1.00 25.17		
ATOM	7160	N	LEU	B 422	18.826		57.909	1.00 25.68		
ATOM	7162	CA		B 422			56.641	1.00 25.80		
ATOM	7164	СВ		B 422			55.778	1.00 26.08		
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	ATOM	7167	CG	LEU :	В	422	18.371	19.948	55.399	1.00	27.05		С
	ATOM	7169	CD1	LEU			18.758	21.190	54.647	1.00			č
	ATOM	7173	CD2	LEU	В	422	17.481	19.094	54.564	1.00			č
	MOTA	7177	С	LEU	В	422	20.889	17.373	56.870	1.00			č
	ATOM	7178	0	LEU	В	422	21.352	16.604	56.048	1.00			ō
	ATOM	7179	N	MET	В	423	21.554	17.700	57.972	1.00			N
	ATOM	7181	CA	MET	В	423	22.857	17.078	58.231	1.00			C
	ATOM	7183	CB	MET			23.519	17.564	59.514	1.00			č
	ATOM	7186	CG	MET			24.207	18.886	59.485	1.00			Ċ
	ATOM	7189	SD	MET	В	423	25.144	19.334	58.028	1.00			s
	ATOM	7190	CE	MET			25.917	20.670	58.720	1.00			Č
	ATOM	7194	С	MET	В	423	22.688	15.578	58.382	1.00			Č
	ATOM	7195	0	MET	В	423	23.639	14.832	58.146	1.00			Ö
	MOTA	7196	N	LYS	В	424	21.501	15.157	58.837	1.00			N
	MOTA	7198	CA	LYS	В	424	21.198	13.751	59.030	1.00			C
	MOTA	7200	CB	LYS	В	424	19.915	13.552	59.845	1.00			C
	ATOM	7203	CG	LYS	В	424	20.021	14.054	61.302	1.00			С
	ATOM	7206	CD	LYS		424	21.060	13.262	62.112	1.00	24.54		С
	MOTA	7209	CE	LYS	В	424	21.305	13.866	63.503	1.00	26.54		С
	ATOM	7212	NZ	LYS	В	424	22.298	14.993	63.495	1.00	27.45		N
	MOTA	7216	С	LYS			21.140	13.023	57.710	1.00	20.91		С
	MOTA	7217	0	LYS			21.461	11.842	57.650	1.00	21.03		0
	MOTA	7218	N	LEU			20.757	13.717	56.641	1.00	20.67		N
	MOTA	7220	CA	LEU		425	20.877	13.152	55.302	1.00			С
	MOTA	7222	CB	LEU			20.345	14.103	54.247		20.69		С
	MOTA	7225	CG	LEU			18.873	14.438	54.379	1.00	21.19		С
	MOTA	7227		LEU		425	18.494	15.237	53.200		21.86		С
	ATOM	7231		LEU			18.054	13.190	54.443		22.05		С
	MOTA	7235	C	LEU			22.320	12.775	54.954		19.93		С
	MOTA	7236	0	LEU			22.560	11.793	54.253		20.24		0
	ATOM	7237	N	VAL			23.252	13.576	55.444		18.93		N
	MOTA	7239	CA	VAL		426	24.673	13.325	55.277		18.53		С
	MOTA	7241	CB	VAL			25.562	14.481	55.830		18.13		С
	ATOM	7243		VAL			26.999	14.281	55.417		18.12		С
	ATOM	7247	CG2				25.088	15.835	55.310		18.79		С
	MOTA	7251	С	VAL			25.066	12.056	55.990		19.07		C
	ATOM	7252	0	VAL			25.722	11.216	55.391		19.50		0
	MOTA	7253	N	SER			24.707	11.934	57.275		18.98		N
	MOTA MOTA	7255	CA	SER			25.032	10.747	58.062		18.73		C
	ATOM	7257 7260	CB OG	SER			24.455	10.833	59.463		18.64		C
	ATOM	7262	C	SER SER			25.035 24.495	11.881	60.182		19.10		0
	ATOM	7263	0	SER			25.180		57.412		18.86		C
	ATOM	7264	N	LEU			23.283		57.394 56.843		18.35 19.64		O N
	ATOM	7266	CA	LEU			22.650		56.207		19.88		
	ATOM	7268	CB	LEU			21.240		55.753		20.39		C
	ATOM	7271	CG	LĖU			20.127		56.783		22.09		C
	MOTA	7273		LEU			18.833		56.137		24.36		Ċ
	ATOM	7277		LEU			19.876		57.324		22.79		Ċ
	MOTA	7281	C	LEU			23.433		55.018		20.62		č
	ATOM	7282	ŏ			428	23.358		54.739		21.52		Ö
	MOTA	7283	N			429	24.149		54.293		21.02		N
	ATOM	7285	CA			429	25.036		53.239		21.84		C
	ATOM	7287	CB			429	25.705		52.453		21.88		C
	MOTA	7290	CG			429	24.825		51.493		22.26		Č
	MOTA	7293	CD			429	23.955		50.625		21.65		č
	ATOM	7296	NE			429	22.978		50.001		22.80		N
•	MOTA	7298	CZ			429	23.105		48.806		22.52		Ĉ
	MOTA	7299		ARG			24.158		48.037		21.19		N
	MOTA	7302		ARG			22.125		48.368		24.13		N
	ATOM	7305	С			429	26.138		53.752		22.42		Ċ
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ATOM 7424 CR GLN B 438								•						
ATOM 7426 CB GLN B 438 26.391 -5.220 57.085 1.00 27.08 C ATOM 7432 CD GLN B 438 25.479 -6.296 57.699 1.00 27.08 ATOM 7433 OEI GLN B 438 26.237 -6.854 58.987 1.00 28.65 O ATOM 7434 NE2 GLN B 438 26.237 -6.854 58.987 1.00 28.65 O ATOM 7434 NE2 GLN B 438 26.237 -6.854 58.987 1.00 28.65 O ATOM 7434 NE2 GLN B 438 26.237 -6.854 58.987 1.00 28.65 O ATOM 7434 C GLN B 438 27.010 -6.821 58.197 1.00 28.672 C ATOM 7438 O GLN B 438 27.010 -6.821 58.197 1.00 27.52 C ATOM 7439 N VALB 439 26.320 -6.403 54.131 1.00 27.61 N ATOM 7441 CA VALB 439 22.522 -6.805 54.131 1.00 27.61 N ATOM 7443 CB VALB 439 24.717 -6.897 54.131 1.00 28.43 C ATOM 7445 CGI VALB 439 24.717 -6.897 55.197 1.00 28.43 C ATOM 7445 CGI VALB 439 24.717 -6.897 55.197 1.00 28.43 C ATOM 7445 CGI VALB 439 24.717 -6.897 55.676 1.00 28.07 C ATOM 7445 CGI VALB 439 25.229 -6.905 56.676 1.00 28.07 C ATOM 7457 C VALB 839 27.004 -8.103 52.487 1.00 28.75 C ATOM 7455 N FIB B 440 28.935 -7.992 51.740 1.00 28.78 C ATOM 7457 CA PIB B 440 28.935 -7.992 51.740 1.00 28.78 C ATOM 7467 CG PIB B 440 30.318 -6.877 51.390 1.00 30.18 C ATOM 7467 CG PIB B 440 31.791 -7.513 49.466 1.00 31.17 C ATOM 7467 CG PIB B 440 31.791 -7.7513 49.466 1.00 31.17 C ATOM 7467 CG PIB B 440 31.791 -7.7513 49.466 1.00 31.17 C ATOM 7467 CG PIB B 440 31.791 -7.7513 49.466 1.00 31.17 C ATOM 7467 CG PIB B 440 32.930 -7.989 50.836 1.00 31.17 C ATOM 7467 CG PIB B 440 33.999 -8.423 49.821 1.00 32.11 C ATOM 7471 CD PIB B 440 32.935 -7.904 55.495 1.00 31.10 C ATOM 7473 C PIB B 440 33.999 -8.423 49.821 1.00 31.17 C ATOM 7474 C PIB B 440 32.935 -7.904 55.495 1.00 31.17 C ATOM 7475 N ALB 841 29.391 -9.004 55.495 1.00 31.17 C ATOM 7476 CB PIB B 440 32.935 -7.905 56.936 1.00 31.17 C ATOM 7477 CA ALB 841 29.391 -9.008 55.495 1.00 33.10 C ATOM 7478 CB ALB 8441 29.391 -9.008 55.495 1.00 33.10 C ATOM 7479 CB ALB 8442 29.505 -9.765 56.935 1.00 33.11 C ATOM 7479 CB ALB 8443 28.905 -1.008 55.495 1.00 33.11 C ATOM 7479 CB ALB 8443 28.905 -1.209 55.495 1.00 33.11 C ATOM 7508 CB ALB 8443 28.905 -1.209 55.495 1.00 33.11 C ATOM 7508	ATOM	7424	CA	GLN	В	438	27.	514	-5.770	56.196	1.00	27 48		C
ATOM 7429 CG GLN B 438 25.479 -6.296 57.699 1.00 26.95 C ATOM 7432 CD GLN B 438 26.181 -7.186 58.720 1.00 27.28 C ATOM 7433 CD GLN B 438 26.121 -7.186 58.720 1.00 27.28 C ATOM 7434 NEZ GLN B 438 26.701 -6.8314 58.724 1.00 26.37 N ATOM 7437 C GLN B 438 26.701 -6.8314 58.274 1.00 26.37 N ATOM 7438 C GLN B 438 27.304 -6.8015 55.372 1.00 27.25 C ATOM 7438 O GLN B 438 27.304 -6.8015 55.372 1.00 27.52 C ATOM 7439 N VAL B 439 26.320 -6.403 54.131 1.00 27.61 N ATOM 7441 CA VAL B 439 25.830 -7.393 53.170 1.00 28.35 C ATOM 7443 CB VAL B 439 24.044 -5.589 52.195 1.00 27.55 C ATOM 7443 CG VAL B 439 24.044 -5.589 52.495 1.00 27.55 C ATOM 7445 CG1 VAL B 439 27.004 -8.101 52.495 1.00 27.55 C ATOM 7445 CG1 VAL B 439 27.004 -8.103 52.495 1.00 28.07 C ATOM 7453 C VAL B 439 27.004 -8.103 52.495 1.00 28.07 C ATOM 7454 C VAL B 439 27.004 -8.103 52.495 1.00 28.52 C ATOM 7455 C VAL B 439 27.004 -8.103 52.495 1.00 28.52 C ATOM 7455 C VAL B 439 27.004 -8.103 52.495 1.00 28.52 C ATOM 7455 C VAL B 439 26.901 -9.259 52.125 1.00 28.52 C ATOM 7455 C VAL B 439 26.901 -9.259 52.125 1.00 28.52 C VAL B 439 26.901 -9.259 52.125 1.00 28.52 C VAL B 439 26.901 -9.259 52.125 1.00 28.52 C VAL B 439 26.901 -9.259 52.125 1.00 28.52 C VAL B 439 26.901 -9.259 52.125 1.00 28.52 C VAL B 439 26.901 -9.259 52.125 1.00 28.52 C VAL B 439 26.901 -9.259 52.125 1.00 28.52 C VAL B 439 26.901 -9.259 52.125 1.00 28.52 C VAL B 439 26.901 -9.259 52.125 1.00 28.52 C VAL B 439 26.901 -9.259 52.125 1.00 28.52 C VAL B 439 26.901 -9.259 52.125 1.00 28.52 C VAL B 439 26.901 -9.259 52.125 1.00 28.52 C VAL B 439 26.901 -9.259 52.125 1.00 28.52 C VAL B 439 26.901 -9.259 52.125 1.00 28.52 C VAL B 439 26.901 -9.259 52.125 1.00 28.52 C VAL B 439 26.901 -9.259 52.125 1.00 28.52 C VAL B 439 26.901 -9.259 52.125 1.00 28.52 C VAL B 440 28.125 -9.401 4.00 28.137 C VAL B 440 28.125 -9.401 4.00 28.10 28.10 28.10 28.10 28.10 28.10 28.10 2														č
ATOM 7432 CD GLN B 438 26.181 -7.186 58.720 1.00 27.28 C ATOM 7434 NEZ GLN B 438 26.237 -6.854 59.897 1.00 28.65 O ATOM 7434 NEZ GLN B 438 26.237 -6.854 59.897 1.00 28.65 O ATOM 7437 C GLN B 438 27.010 -6.821 55.197 1.00 27.52 C ATOM 7438 O GLN B 438 27.010 -6.821 55.197 1.00 27.52 C ATOM 7439 N VAL B 439 26.320 -6.403 54.131 1.00 27.61 N ATOM 7441 CA VAL B 439 26.320 -6.403 54.131 1.00 27.61 N ATOM 7443 CG VAL B 439 24.717 -6.897 52.113 1.00 28.43 C ATOM 7445 CG VAL B 439 24.717 -6.897 52.113 1.00 28.35 C ATOM 7445 CG VAL B 439 24.717 -6.897 52.113 1.00 28.83 C ATOM 7445 CG VAL B 439 25.229 -6.905 50.676 1.00 28.07 C ATOM 7445 CO VAL B 439 27.004 -8.103 52.467 1.00 28.75 C ATOM 7455 N PHE B 440 28.125 -7.410 52.360 1.00 29.47 N ATOM 7457 CA PHE B 440 29.305 -7.982 51.740 1.00 30.52 C ATOM 7463 CD PHE B 440 31.606 -7.398 51.740 1.00 30.52 C ATOM 7463 CD PHE B 440 31.791 -7.513 49.466 1.00 31.37 C ATOM 7467 CZ PHE B 440 33.381 -6.877 51.390 1.00 30.52 C ATOM 7467 CZ PHE B 440 33.996 -8.423 49.821 1.00 31.17 C ATOM 7467 CZ PHE B 440 33.997 -8.019 48.956 1.00 31.37 C ATOM 7467 CZ PHE B 440 33.997 -8.019 48.956 1.00 31.37 C ATOM 7467 CZ PHE B 440 33.998 -8.423 49.821 1.00 32.17 C ATOM 7467 CZ PHE B 440 33.999 -8.019 48.956 1.00 31.37 C ATOM 7467 CZ PHE B 440 33.899 -8.423 49.821 1.00 32.17 C ATOM 7467 CZ PHE B 440 33.999 -8.019 48.956 1.00 31.37 C ATOM 7474 O PHE B 440 33.999 -8.019 48.956 1.00 31.37 C ATOM 7474 C PHE B 440 33.999 -8.019 48.956 1.00 31.85 C ATOM 7474 C PHE B 440 33.826 -9.319 51.991 1.00 32.21 C ATOM 7474 C PHE B 440 33.895 -9.809 51.995 1.00 30.16 O ATOM 7474 C PHE B 440 33.999 -8.019 48.956 1.00 31.85 C ATOM 7474 C PHE B 440 33.999 -8.019 48.956 1.00 31.85 C ATOM 7474 C PHE B 440 33.800 -9.900 -9.900 52.900 1.00 30.16 O ATOM 7475 CA ALA B 441 29.925 -9.900 55.431 1.00 32.17 C ATOM 7476 CB LEU B 442 29.525 -9.800 55.431 1.00 33.90 C ATOM 7477 CA ALA B 441 29.925 -9.800 55.431 1.00 33.90 C ATOM 7478 CR ALA B 441 29.925 -9.800 55.431 1.00 33.90 C ATOM 7504 CR ALA B 441 29.925 -9.800 55.431 1.00 33.9														
ATOM   7434   NEZ GEN B 438   26.707   -6.854   59.897   1.00   26.55   O	ATOM	7432	CD											
ATOM 7434 NEZ GLN B 438	ATOM		OE1	GLN										
ATOM 7438 C GLN B 438		7434												
ATOM 7439 N VAL B 439 26.320 -6.403 55.372 1.00 26.72 NATOM 7441 CB VAL B 439 26.320 -6.403 54.131 1.00 27.661 N ATOM 7443 CB VAL B 439 26.320 -6.403 54.131 1.00 27.661 N ATOM 7443 CB VAL B 439 26.717 -6.897 52.113 1.00 28.43 C ATOM 7445 CGI VAL B 439 24.044 -5.589 52.495 1.00 27.55 C ATOM 7449 CG2 VAL B 439 25.229 -6.905 50.676 1.00 28.07 C ATOM 7449 CG2 VAL B 439 25.229 -6.905 50.676 1.00 28.78 C ATOM 7450 C VAL B 439 25.229 -6.905 50.676 1.00 28.78 C ATOM 7451 C VAL B 439 25.229 -6.905 50.676 1.00 28.78 C ATOM 7454 O VAL B 439 26.901 -9.259 52.125 1.00 28.78 C ATOM 7455 N PHE B 440 29.305 -7.782 51.100 29.47 N ATOM 7457 CA PHE B 440 29.305 -7.740 52.360 1.00 30.52 C ATOM 7459 CB PHE B 440 31.606 -7.398 50.836 1.00 31.17 C ATOM 7457 CA PHE B 440 31.606 -7.398 50.836 1.00 31.17 C ATOM 7463 CDI PHE B 440 31.606 -7.398 50.836 1.00 31.17 C ATOM 7465 CEI PHE B 440 32.979 -8.019 48.956 1.00 31.37 ATOM 7465 CEI PHE B 440 32.979 -8.019 48.956 1.00 31.37 C ATOM 7467 CZ PHE B 440 33.998 -8.423 49.821 1.00 32.17 C ATOM 7467 CZ PHE B 440 33.998 -8.423 49.821 1.00 32.17 C ATOM 7467 CZ PHE B 440 33.998 -8.423 49.821 1.00 32.17 C ATOM 7467 CZ PHE B 440 33.998 -8.423 49.821 1.00 32.17 C ATOM 7471 CD PHE B 440 33.998 -8.423 49.821 1.00 32.17 C ATOM 7471 CD PHE B 440 33.998 -8.423 49.821 1.00 32.17 C ATOM 7471 CD PHE B 440 33.998 -8.423 49.821 1.00 31.18 C ATOM 7471 CD PHE B 440 32.913 -9.048 52.662 1.00 31.30 C ATOM 7471 CD PHE B 440 32.931 -9.048 52.662 1.00 31.30 C ATOM 7471 CD PHE B 440 32.931 -9.048 52.662 1.00 30.53 C ATOM 7471 CD PHE B 440 32.931 -9.048 52.662 1.00 30.53 C ATOM 7478 CB ALB 8411 30.379 -9.105 56.343 1.00 31.11 C ATOM 7488 CD ALB 8411 30.379 -9.105 56.343 1.00 31.12 N ATOM 7478 CB ALB 8411 30.379 -9.105 56.343 1.00 31.11 C ATOM 7488 CD ALB 8411 30.379 -9.105 56.343 1.00 31.11 C ATOM 7488 CD ALB 842 22.7528 -11.892 54.477 1.00 31.30 C ATOM 7488 CD ALB 842 22.7528 -11.892 54.477 1.00 31.30 C ATOM 7489 CB ALB 842 22.806 -10.628 55.218 1.00 33.90 C ATOM 7489 CB ALB 842 22.806 -10.628 55.218 1.00 33.90 C ATOM			С	GLN	В	438								
ATOM 7449 N VAL B 439														
ATOM 7441 CB VAL B 439														
ATOM 7445 CB1 VAL B 439			CA											
ARTOM 7449 CG2 VAL B 439			СВ											č
ATOM 7449 CG2 VAL B 439 25.229 -6.905 50.676 1.00 28.07 C ATOM 7453 C VAL B 439 26.901 -9.259 52.125 1.00 28.78 C ATOM 7455 N PHE B 440 28.125 -7.410 52.360 1.00 29.47 N ATOM 7457 CA PHE B 440 28.125 -7.410 52.360 1.00 30.18 C ATOM 7459 CB PHE B 440 30.318 -6.877 51.390 1.00 30.15 C ATOM 7462 CG PHE B 440 31.791 -7.513 49.466 1.00 31.17 C ATOM 7465 CE1 PHE B 440 31.791 -7.513 49.466 1.00 31.17 C ATOM 7465 CE1 PHE B 440 33.998 -8.423 49.821 1.00 32.17 C ATOM 7467 CZ PHE B 440 33.998 -8.423 49.821 1.00 32.17 C ATOM 7467 CZ PHE B 440 33.998 -8.423 49.821 1.00 32.17 C ATOM 7467 CZ PHE B 440 33.998 -8.423 49.821 1.00 30.18 C ATOM 7476 CZ PHE B 440 33.998 -8.423 49.821 1.00 30.18 C ATOM 7477 CD PHE B 440 33.998 -8.423 49.821 1.00 30.10 C ATOM 7477 CD PHE B 440 32.632 -7.803 51.696 1.00 31.85 C ATOM 7473 C PHE B 440 32.632 -7.803 51.696 1.00 31.85 C ATOM 7473 C PHE B 440 30.343 -10.100 52.195 1.00 30.16 O ATOM 7477 CA ALA B 441 30.325 -9.745 54.974 1.00 31.10 C ATOM 7477 CA ALA B 441 30.325 -9.745 54.974 1.00 31.30 C ATOM 7483 C ALA B 441 30.325 -9.745 54.974 1.00 31.31 C ATOM 7483 C ALA B 441 29.801 -10.955 54.995 1.00 32.14 C ATOM 7485 N EUB 842 28.142 -10.771 54.589 1.00 33.22 N ATOM 7486 CB EUB 842 28.122 -10.715 54.995 1.00 33.22 N ATOM 7487 CA LEU B 442 23.391 -10.955 54.995 1.00 33.22 N ATOM 7488 C EUB 842 27.205 -11.892 54.477 1.00 34.11 C ATOM 7498 CB EUB 842 25.202 -10.628 55.521 1.00 33.90 C ATOM 7498 CB EUB 842 25.222 -10.628 55.521 1.00 33.90 C ATOM 7503 C LEU B 442 25.529 -14.056 53.490 1.00 33.91 C ATOM 7504 N ARG B 443 28.829 -10.068 55.521 1.00 33.90 C ATOM 7504 N ARG B 443 28.829 -10.068 55.521 1.00 37.77 C ATOM 7504 N ARG B 443 28.839 -10.566 53.490 1.00 37.77 C ATOM 7504 N ARG B 443 29.850 -12.552 88.893 1.00 37.77 C ATOM 7504 N ARG B 443 29.850 -12.552 88.893 1.00 37.77 C ATOM 7504 N ARG B 443 29.850 -12.552 88.893 1.00 39.03 C ATOM 7504 N ARG B 443 30.360 -12.552 88.60 1.00 37.77 C ATOM 7507 C ARG B 443 30.480 -11.505 56.334 1.00 38.57 P ATOM 7504 N ARG B 443 30.360 -12.552 88.503 1.00 39.03 C AT	ATOM	7445	CG1											
ATOM 7453 C VAL B 439 27.004 -8.103 52.487 1.00 28.78 C ATOM 7455 N PHE B 440 28.125 -7.410 52.360 1.00 29.47 N ATOM 7457 CA PHE B 440 28.125 -7.410 52.360 1.00 29.47 N ATOM 7457 CA PHE B 440 28.125 -7.410 52.360 1.00 30.18 C ATOM 7459 CB PHE B 440 30.318 -6.877 51.390 1.00 30.52 C ATOM 7462 CG PHE B 440 31.606 -7.398 50.836 1.00 31.177 C ATOM 7465 CE1 PHE B 440 31.606 -7.398 50.836 1.00 31.177 C ATOM 7465 CE1 PHE B 440 31.938 -8.842 49.821 1.00 32.17 C ATOM 7465 CE2 PHE B 440 33.988 -8.423 49.821 1.00 32.17 C ATOM 7467 CZ PHE B 440 33.824 -8.319 51.191 1.00 32.17 C ATOM 7467 CZ PHE B 440 33.824 -8.319 51.191 1.00 32.17 C ATOM 7471 CDZ PHE B 440 33.824 -8.319 51.191 1.00 32.17 C ATOM 7471 CDZ PHE B 440 33.824 -8.319 51.191 1.00 32.17 C ATOM 7473 C PHE B 440 33.824 -8.319 51.191 1.00 32.17 C ATOM 7473 C PHE B 440 33.3824 -8.319 51.191 1.00 32.17 C ATOM 7473 C PHE B 440 33.3824 -8.319 51.191 1.00 32.17 C ATOM 7473 C PHE B 440 33.33 -10.100 52.195 1.00 30.53 C ATOM 7474 O PHE B 440 30.331 -9.048 52.662 1.00 30.53 C ATOM 7474 O PHE B 440 30.331 -9.048 52.662 1.00 30.55 C ATOM 7475 N ALA B 441 30.379 -9.105 56.343 1.00 31.11 C ATOM 7477 CA ALA B 441 30.379 -9.105 56.343 1.00 31.11 C ATOM 7483 C ALA B 441 29.905 -8.772 53.968 1.00 31.12 N ATOM 7478 C B ALA B 441 29.900 -12.049 55.385 1.00 32.14 C ATOM 7488 C ALA B 441 29.800 -12.049 55.385 1.00 32.55 O ATOM 7488 C ALEU B 442 27.205 -11.892 54.477 1.00 34.11 C ATOM 7489 C B LEU B 442 27.205 -11.892 54.477 1.00 34.11 C ATOM 7498 C B LEU B 442 27.205 -11.892 54.477 1.00 34.98 C C ATOM 7508 C ARG B 443 29.495 -12.841 50.332 1.00 34.73 C C ATOM 7508 C ARG B 443 29.495 -12.841 50.332 1.00 34.73 C C ATOM 7508 C ARG B 443 29.495 -12.841 50.332 1.00 34.73 C C ATOM 7508 C ARG B 443 29.495 -12.846 67.33 1.00 34.73 C C ATOM 7508 C ARG B 443 29.495 -12.866 47.393 1.00 34.73 C C ATOM 7508 C ARG B 443 29.495 -12.486 47.393 1.00 34.98 C C ATOM 7508 C ARG B 443 30.485 -12.121 49.852 1.00 37.77 C C ATOM 7508 C ARG B 443 30.402 -13.303 91.00 31.00 37.30 C ATOM 7540 C ARG B 443 30.402 -														
ATOM 7455 N PHE B 440	MOTA	7453	С	VAL										
ATOM 7455 N PHE B 440				VAL										
AROM 7457 CA PHE B 440	MOTA	7455	N											-
ATOM 7462 CG PHE B 440 30.318 -6.877 51.390 1.00 30.52 C C ATOM 7462 CG PHE B 440 31.606 -7.398 50.836 1.00 31.17 C C ATOM 7465 CEI PHE B 440 31.791 -7.513 49.466 1.00 31.37 C ATOM 7465 CEI PHE B 440 33.998 -8.423 49.821 1.00 32.17 C ATOM 7467 CZ PHE B 440 33.998 -8.423 49.821 1.00 32.17 C ATOM 7467 CZ PHE B 440 33.824 -8.319 51.191 1.00 32.17 C ATOM 7471 CDZ PHE B 440 33.824 -8.319 51.191 1.00 32.17 C ATOM 7473 C PHE B 440 29.913 -9.048 52.662 1.00 30.53 C ATOM 7473 C PHE B 440 29.913 -9.048 52.662 1.00 30.53 C ATOM 7474 O PHE B 440 30.343 -10.100 52.195 1.00 30.16 O ATOM 7475 N ALA B 441 29.925 -8.772 53.968 1.00 31.12 N ATOM 7477 CA ALA B 441 29.925 -8.7745 54.974 1.00 31.30 C ATOM 7479 CB ALA B 441 30.379 -9.105 56.343 1.00 31.11 C ATOM 7483 C ALA B 441 29.800 -12.049 55.385 1.00 32.55 O ATOM 7485 N LEU B 442 28.142 -10.771 54.589 1.00 32.55 O ATOM 7487 CA LEU B 442 28.142 -10.771 54.589 1.00 33.91 C ATOM 7489 CB LEU B 442 25.558 -11.892 54.477 1.00 34.11 C ATOM 7489 CB LEU B 442 25.558 -11.892 55.521 1.00 33.90 C ATOM 7494 CD1 LEU B 442 25.558 -11.892 55.521 1.00 33.90 C ATOM 7502 C LEU B 442 27.559 -10.628 55.521 1.00 33.90 C ATOM 7502 C LEU B 442 27.559 -10.628 55.521 1.00 34.88 C ATOM 7508 CB ARG B 443 28.002 -12.274 52.198 1.00 34.73 C ATOM 7504 N ARG B 443 28.002 -12.274 52.198 1.00 37.27 C ATOM 7506 CA ARG B 443 28.002 -12.274 52.198 1.00 37.27 C ATOM 7506 CA ARG B 443 28.002 -12.274 52.198 1.00 37.27 C ATOM 7506 CA ARG B 443 29.850 -12.552 48.893 1.00 37.30 C ATOM 7507 N ARG B 443 29.850 -12.552 48.893 1.00 37.30 C ATOM 7508 CB ARG B 443 29.850 -12.552 48.893 1.00 37.30 C ATOM 7508 CB ARG B 443 29.850 -12.552 48.893 1.00 37.30 C ATOM 7508 CB ARG B 443 29.850 -12.552 48.893 1.00 37.30 C ATOM 7517 N ARG B 443 29.850 -12.552 48.893 1.00 37.30 C ATOM 7517 N ARG B 443 29.850 -12.552 48.893 1.00 37.30 C ATOM 7514 CD ARG B 443 30.402 -13.339 46.604 1.00 44.15 N ATOM 7520 N ARG B 443 30.402 -13.339 46.604 1.00 37.30 C ATOM 7517 N ARG B 443 30.402 -13.339 46.604 1.00 37.30 C ATOM 7520 N ARG B 443 30.402 -13.	MOTA	7457	CA	PHE	В	440								
ATOM 7463 CD1 PHE B 440	ATOM	7459	CB	PHE	В	440					1.00	30.52		
ATOM 7465 CEI PHE B 440 31.791 -7.513 49.466 1.00 31.37 C ATOM 7465 CEI PHE B 440 32.979 -8.019 48.956 1.00 31.90 C ATOM 7467 CZ PHE B 440 33.998 -8.423 49.821 1.00 32.17 C ATOM 7467 CZ PHE B 440 33.924 -8.319 51.191 1.00 32.17 C ATOM 7471 CDZ PHE B 440 33.824 -8.319 51.191 1.00 32.17 C ATOM 7471 CDZ PHE B 440 29.913 -9.048 52.662 1.00 30.53 C ATOM 7474 O PHE B 440 29.913 -9.048 52.662 1.00 30.53 C ATOM 7475 N ALA B 441 29.925 -8.772 53.968 1.00 31.12 N ATOM 7477 CA ALA B 441 30.325 -9.745 54.974 1.00 31.12 N ATOM 7477 CA ALA B 441 30.325 -9.745 54.974 1.00 31.11 C ATOM 7483 C ALA B 441 29.391 -10.955 54.995 1.00 32.14 C ATOM 7484 O ALA B 441 29.391 -10.955 54.995 1.00 32.14 C ATOM 7485 N LEU B 442 28.142 -10.771 54.589 1.00 32.14 C ATOM 7487 CA LEU B 442 28.142 -10.771 54.589 1.00 33.22 N ATOM 7487 CA LEU B 442 25.726 -11.892 54.477 1.00 33.91 C ATOM 7489 CB LEU B 442 25.726 -11.892 54.477 1.00 33.91 C ATOM 7498 CD LEU B 442 25.202 -10.628 55.521 1.00 33.91 C ATOM 7498 CD LEU B 442 25.202 -10.628 55.521 1.00 33.90 C ATOM 7498 CD LEU B 442 25.22 -10.628 55.521 1.00 34.68 C ATOM 7502 C LEU B 442 27.529 -14.056 53.490 1.00 34.28 O ATOM 7502 C LEU B 442 27.529 -14.056 53.490 1.00 34.28 O ATOM 7502 C LEU B 442 27.529 -14.056 53.490 1.00 34.28 O ATOM 7504 N ARG B 443 28.002 -12.274 52.198 1.00 34.88 C ATOM 7504 C ARG B 443 28.002 -12.274 52.198 1.00 34.88 C ATOM 7504 C ARG B 443 28.002 -12.274 52.198 1.00 34.00 34.00 C ATOM 7504 C ARG B 443 28.002 -12.274 52.198 1.00 34.00 34.00 C ATOM 7504 C ARG B 443 28.002 -12.274 52.198 1.00 37.79 N ATOM 7504 C ARG B 443 28.002 -12.274 52.198 1.00 37.79 N ATOM 7504 C ARG B 443 28.002 -12.274 52.198 1.00 37.99 N ATOM 7504 C ARG B 443 28.002 -12.274 52.198 1.00 37.30 C ATOM 7504 C ARG B 443 28.002 -12.274 52.198 1.00 37.99 N ATOM 7504 C ARG B 443 28.002 -12.274 52.198 1.00 37.99 N ATOM 7504 C ARG B 443 28.002 -12.274 52.198 1.00 37.99 N ATOM 7504 C ARG B 443 30.402 -13.339 50.00 44.00 N ATOM 7511 CC ARG B 443 30.402 -13.339 50.00 44.00 N ATOM 7520 NH1 ARG B 443 30.402 -13.339 50.0	ATOM	7462	CG	PHE	В	440	31.	606	-7.398				-	
ATOM 7465 CEI PHE B 440 32.979 -8.019 48.956 1.00 31.90 C ATOM 7467 CZ PHE B 440 33.982 -8.423 49.821 1.00 32.17 C ATOM 7467 CZ PHE B 440 33.982 -8.423 49.821 1.00 32.21 C ATOM 7471 CD2 PHE B 440 32.632 -7.803 51.696 1.00 30.53 C ATOM 7473 C PHE B 440 30.343 -9.048 52.662 1.00 30.53 C ATOM 7474 O PHE B 440 30.343 -10.100 52.195 1.00 30.16 O ATOM 7475 N ALA B 441 29.925 -8.772 53.968 1.00 31.12 N ATOM 7477 CA ALA B 441 30.325 -9.745 54.974 1.00 31.30 C ATOM 7479 CB ALA B 441 29.391 -10.955 56.343 1.00 31.11 C ATOM 7483 C ALA B 441 29.391 -10.955 54.995 1.00 32.14 C ATOM 7484 O ALA B 441 29.800 -12.049 55.385 1.00 32.15 C ATOM 7485 N LEU B 442 25.202 -10.628 55.521 1.00 33.90 C ATOM 7489 CB LEU B 442 25.758 -11.892 54.314 1.00 33.91 C ATOM 7494 CD1 LEU B 442 25.758 -11.892 54.314 1.00 33.90 C ATOM 7494 CD1 LEU B 442 25.522 -10.628 55.521 1.00 33.90 C ATOM 7502 C LEU B 442 25.123 -11.505 56.737 1.00 34.60 C ATOM 7503 O LEU B 442 27.529 -10.668 55.218 1.00 34.73 C ATOM 7504 N ARG B 443 28.002 -12.274 52.198 1.00 33.727 C ATOM 7506 CA ARG B 443 28.965 -12.524 8.893 1.00 35.79 N ATOM 7514 CD ARG B 443 29.850 -12.524 8.893 1.00 37.27 C ATOM 7514 CD ARG B 443 29.850 -12.555 1.00 37.27 C ATOM 7514 CD ARG B 443 29.850 -12.552 8.893 1.00 37.27 C ATOM 7514 CD ARG B 443 29.850 -12.552 8.893 1.00 37.27 C ATOM 7514 CD ARG B 443 29.850 -12.552 8.893 1.00 37.27 C ATOM 7514 CD ARG B 443 29.850 -12.552 8.893 1.00 37.27 C ATOM 7514 CD ARG B 443 29.850 -12.552 8.893 1.00 37.27 C ATOM 7514 CD ARG B 443 29.850 -12.552 8.893 1.00 37.30 C ATOM 7514 CD ARG B 443 29.850 -12.552 8.893 1.00 37.30 C ATOM 7514 CD ARG B 443 30.348 -13.500 51.400 30.30 N ATOM 7514 CD ARG B 443 30.348 -13.500 51.400 30.30 N ATOM 7514 CD ARG B 443 30.346 -13.500 51.400 30.30 N ATOM 7514 CD ARG B 443 30.348 -13.500 51.400 30.30 N ATOM 7516 CA ARG B 443 30.346 -12.552 8.893 1.00 37.79 N ATOM 7517 NE ARG B 443 30.348 -13.500 51.400 30.30 N ATOM 7520 CLEU B 444 31.501 -15.002 53.743 1.00 39.49 C ATOM 7530 CA LEU B 444 31.804 -14.014 52.703 1.00 39.49 C ATOM 7546 C L	MOTA	7463				440	31.	791	-7.513	49.466				С
ATOM 7467 CZ PHE B 440 33.998 -8.423 49.821 1.00 32.17 C ATOM 7471 CD2 PHE B 440 32.632 -7.803 51.696 1.00 31.85 C ATOM 7471 CD2 PHE B 440 32.632 -7.803 51.696 1.00 31.85 C ATOM 7473 C PHE B 440 29.913 -9.048 52.662 1.00 30.53 C ATOM 7474 O PHE B 440 30.343 -10.100 52.195 1.00 30.16 O ATOM 7475 N ALA B 441 29.925 -8.772 53.968 1.00 31.12 N ATOM 7477 CA ALA B 441 30.325 -9.745 54.974 1.00 31.30 C ATOM 7479 CB ALA B 441 30.379 -9.105 56.343 1.00 31.11 C ATOM 7483 C ALA B 441 29.800 -12.049 55.385 1.00 32.14 C ATOM 7487 O ALA B 441 29.800 -12.049 55.385 1.00 32.14 C ATOM 7487 CA LEU B 442 28.142 -10.771 54.589 1.00 32.25 O ATOM 7489 CB LEU B 442 25.758 -11.892 54.477 1.00 34.11 C ATOM 7489 CB LEU B 442 25.758 -11.895 55.521 1.00 33.91 C ATOM 7494 CD1 LEU B 442 25.202 -10.628 55.521 1.00 33.90 C ATOM 7494 CD1 LEU B 442 25.202 -10.628 55.521 1.00 34.88 C ATOM 7502 C LEU B 442 27.593 -12.841 53.332 1.00 34.73 C ATOM 7504 N ARG B 443 28.464 -13.057 51.053 1.00 34.28 O ATOM 7504 C ARG B 443 28.464 -13.057 51.053 1.00 34.28 O ATOM 7504 C ARG B 443 28.464 -13.057 51.053 1.00 34.28 O ATOM 7504 C ARG B 443 29.955 -12.486 47.393 1.00 34.28 C ATOM 7508 C B ARG B 443 29.955 -12.486 47.393 1.00 34.00 N ATOM 7511 CG ARG B 443 29.955 -12.486 47.393 1.00 34.00 N ATOM 7511 CG ARG B 443 29.955 -12.486 47.393 1.00 34.00 N ATOM 7522 C ARG B 443 29.955 -12.486 47.393 1.00 34.00 N ATOM 7510 C ARG B 443 29.955 -12.486 47.393 1.00 34.00 N ATOM 7523 NH2 ARG B 443 29.955 -12.486 47.393 1.00 34.00 N ATOM 7524 C ARG B 443 29.955 -12.585 51.073 1.00 33.90 C ATOM 7525 C ARG B 443 29.955 -12.585 51.073 1.00 33.90 C ATOM 7526 C ARG B 443 29.955 -12.585 51.073 1.00 33.90 C ATOM 7527 C ARG B 443 30.402 -13.339 46.604 1.00 43.02 N ATOM 7528 N LEU B 444 31.804 -14.014 52.703 31.00 38.50 C ATOM 7530 CA LEU B 444 31.804 -14.014 52.703 31.00 38.50 C ATOM 7530 CA LEU B 444 31.804 -14.014 52.703 31.00 38.50 C ATOM 7530 CA LEU B 444 31.804 -14.014 52.703 31.00 39.40 C ATOM 7530 CA LEU B 444 31.804 -14.014 52.703 31.00 39.40 C ATOM 7530 CA LEU B 444 31.804	MOTA	7465	CE1			440	32.	979	-8.019	48.956	1.00	31.90		С
ATOM 7469 CE2 PHE B 440 33.824 -8.319 51.191 1.00 32.21 C ATOM 7471 CD2 PHE B 440 29.913 -9.048 52.662 1.00 30.53 C ATOM 7473 C PHE B 440 30.343 -10.100 52.195 1.00 30.16 O ATOM 7475 N ALA B 441 30.325 -8.774 53.968 1.00 31.12 N ATOM 7477 CA ALA B 441 30.325 -9.745 54.974 1.00 31.30 C ATOM 7479 CB ALA B 441 30.325 -9.745 54.974 1.00 31.31 C ATOM 7479 CB ALA B 441 29.391 -10.955 54.995 1.00 32.14 C ATOM 7483 C ALA B 441 29.391 -10.955 54.995 1.00 32.14 C ATOM 7487 CA ALA B 441 29.800 -12.049 55.385 1.00 32.15 C ATOM 7488 N LEU B 442 27.205 -11.892 54.477 1.00 34.11 C ATOM 7489 CB LEU B 442 25.58 -11.389 54.314 1.00 33.91 C ATOM 7494 CD1 LEU B 442 25.520 -10.628 55.521 1.00 33.90 C ATOM 7498 CD2 LEU B 442 25.202 -10.628 55.521 1.00 33.90 C ATOM 7498 CD2 LEU B 442 27.529 -14.056 55.349 1.00 34.73 C ATOM 7503 O LEU B 442 27.529 -14.056 55.349 1.00 34.73 C ATOM 7503 O LEU B 442 27.529 -14.056 53.490 1.00 34.73 C ATOM 7504 N ARG B 443 28.002 -12.274 52.198 1.00 34.73 C ATOM 7505 CA ARG B 443 29.895 -12.552 48.893 1.00 35.79 N ATOM 7508 CB ARG B 443 29.895 -12.552 48.893 1.00 35.79 N ATOM 7501 CA ARG B 443 29.495 -12.274 52.198 1.00 33.90 C ATOM 7501 CA ARG B 443 29.495 -12.274 52.198 1.00 37.27 C ATOM 7502 CA ARG B 443 29.495 -12.274 52.198 1.00 37.27 C ATOM 7503 NH ARG B 443 29.495 -12.486 47.393 1.00 41.01 C ATOM 7504 CD ARG B 443 29.495 -12.486 47.393 1.00 34.00 N ATOM 7505 CA ARG B 443 29.495 -12.486 47.393 1.00 34.00 N ATOM 7514 CD ARG B 443 29.495 -12.486 47.393 1.00 37.79 N ATOM 7520 NH ARG B 443 29.495 -12.486 47.393 1.00 37.30 C ATOM 7520 NH ARG B 443 29.495 -12.486 47.393 1.00 37.30 C ATOM 7520 C LEU B 444 31.804 -13.057 51.053 1.00 36.82 C ATOM 7517 NE ARG B 443 29.495 -12.486 47.393 1.00 39.03 C ATOM 7520 NH ARG B 443 30.402 -13.339 46.604 1.00 43.02 N ATOM 7520 NH ARG B 443 30.402 -13.339 46.604 1.00 37.30 C ATOM 7520 C LEU B 444 31.804 -14.014 52.703 31.00 38.50 C ATOM 7537 CD LEU B 444 31.804 -14.014 52.703 31.00 38.50 C ATOM 7537 C ARG B 443 30.349 -13.500 55.421 1.00 39.49 C ATOM 7536 C C ARG B 443 3	MOTA	7467	CZ	PHE	В	440	33.	998	-8.423	49.821	1.00	32.17		С
ATOM 7471 CD2 PHE B 440 32.632 -7.803 51.696 1.00 31.85 C ATOM 7473 C PHE B 440 30.343 -10.100 52.195 1.00 30.16 O ATOM 7474 O PHE B 440 30.343 -10.100 52.195 1.00 30.16 O ATOM 7475 N ALA B 441 29.925 -8.772 53.968 1.00 31.12 N ATOM 7477 CA ALA B 441 30.325 -9.745 54.974 1.00 31.30 C ATOM 7479 CB ALA B 441 30.325 -9.745 54.974 1.00 31.11 C ATOM 7483 C ALA B 441 29.391 -10.955 54.995 1.00 32.14 C ATOM 7483 C ALA B 441 29.391 -10.955 54.995 1.00 32.14 C ATOM 7485 N LEU B 442 29.800 -12.049 55.385 1.00 32.55 O ATOM 7485 N LEU B 442 28.142 -10.771 54.589 1.00 32.52 N ATOM 7487 CA LEU B 442 25.202 -11.892 54.477 1.00 34.11 C ATOM 7489 CB LEU B 442 25.202 -10.628 55.521 1.00 33.91 C ATOM 7492 CG LEU B 442 25.202 -10.628 55.521 1.00 33.90 C ATOM 7498 CD2 LEU B 442 25.202 -10.628 55.521 1.00 34.88 C ATOM 7498 CD2 LEU B 442 27.593 -12.841 53.332 1.00 34.73 C ATOM 7503 O LEU B 442 27.593 -12.841 53.332 1.00 34.73 C ATOM 7503 O LEU B 442 27.593 -12.841 53.332 1.00 34.73 C ATOM 7504 N ARG B 443 28.002 -12.274 52.198 1.00 34.28 O ATOM 7504 N ARG B 443 28.002 -12.274 52.198 1.00 37.27 C ATOM 7508 CB ARG B 443 28.733 -12.14 9.852 1.00 37.27 C ATOM 7511 CG ARG B 443 29.850 -12.552 48.893 1.00 39.03 C ATOM 7511 CG ARG B 443 29.850 -12.552 48.893 1.00 37.27 C ATOM 7511 CG ARG B 443 29.850 -12.552 48.893 1.00 39.03 C ATOM 7511 CG ARG B 443 29.455 -12.866 47.393 1.00 39.03 C ATOM 7510 CG ARG B 443 30.402 -13.339 46.60 1.00 37.27 C ATOM 7511 CG ARG B 443 30.402 -13.339 46.60 1.00 37.30 C ATOM 7523 NH2 ARG B 443 30.402 -13.339 46.60 1.00 37.30 C ATOM 7523 NH2 ARG B 443 30.402 -13.339 46.60 1.00 37.30 C ATOM 7520 NH1 ARG B 443 30.402 -13.339 46.60 1.00 37.30 C ATOM 7520 NH1 ARG B 443 30.402 -13.339 46.60 1.00 37.30 C ATOM 7523 NH2 ARG B 443 30.402 -13.339 46.60 1.00 37.30 C ATOM 7524 C ARG B 443 30.402 -13.339 51.406 1.00 37.30 C ATOM 7527 NH ARG B 443 30.402 -13.339 51.406 1.00 37.30 C ATOM 7527 NH ARG B 443 30.402 -13.339 51.406 1.00 37.30 C ATOM 7527 NH ARG B 443 30.402 -13.339 51.406 1.00 37.30 C ATOM 7526 C ARG B 443 30.402 -13.	MOTA	7469	CE2			440	33.	824	-8.319	51.191	1.00	32.21		
ATOM 7473 C PHE B 440 29.913 -9.048 52.662 1.00 30.53 C ATOM 7474 O PHE B 440 30.343 -10.100 52.195 1.00 30.16 O ATOM 7477 N ALA B 441 29.925 -8.772 53.968 1.00 31.12 N ATOM 7477 CA ALA B 441 30.325 -9.745 54.974 1.00 31.30 C ATOM 7479 CB ALA B 441 30.379 -9.105 56.343 1.00 31.11 C ATOM 7483 C ALA B 441 29.991 -10.955 54.995 1.00 32.14 C ATOM 7483 N LEU B 442 28.142 -10.771 54.589 1.00 32.55 O ATOM 7485 N LEU B 442 28.142 -10.771 54.589 1.00 32.12 N ATOM 7487 CA LEU B 442 27.205 -11.892 54.477 1.00 34.11 C ATOM 7489 CB LEU B 442 25.758 -11.389 54.314 1.00 33.91 C ATOM 7494 CD1 LEU B 442 25.58 -11.389 54.314 1.00 33.91 C ATOM 7494 CD1 LEU B 442 25.58 -11.389 54.314 1.00 33.90 C ATOM 7494 CD1 LEU B 442 23.829 -10.068 55.218 1.00 34.88 C ATOM 7498 CD2 LEU B 442 27.529 -10.628 55.521 1.00 34.88 C ATOM 7503 O LEU B 442 27.593 -12.841 53.332 1.00 34.73 C ATOM 7503 O LEU B 442 27.599 -14.056 53.490 1.00 34.73 C ATOM 7506 CA ARG B 443 28.002 -12.274 52.198 1.00 35.79 N ATOM 7506 CA ARG B 443 28.002 -12.274 52.198 1.00 35.79 N ATOM 7506 CA ARG B 443 28.002 -12.274 52.198 1.00 36.82 C ATOM 7501 CD ARG B 443 29.895 -12.486 47.393 1.00 41.01 C ATOM 7517 NE ARG B 443 30.402 -13.339 46.604 1.00 43.02 N ATOM 7517 NE ARG B 443 30.402 -13.339 46.604 1.00 43.02 N ATOM 7514 CD ARG B 443 30.402 -13.339 46.604 1.00 43.02 N ATOM 7514 CD ARG B 443 30.402 -13.339 46.604 1.00 43.02 N ATOM 7520 NH1 ARG B 443 30.402 -13.339 46.604 1.00 43.02 N ATOM 7520 NH1 ARG B 443 30.402 -13.339 46.604 1.00 44.15 N ATOM 7520 C ARG B 443 30.348 -13.500 55.277 1.00 37.77 C ARG M 7527 O ARG B 443 30.402 -13.339 51.404 1.00 44.15 N ATOM 7520 C LEU B 444 33.483 -11.946 52.229 1.00 37.79 N ATOM 7520 C ARG B 443 30.402 -13.339 46.604 1.00 43.02 N ATOM 7520 NH1 ARG B 443 30.402 -13.339 51.446 1.00 44.15 N ATOM 7520 C ARG B 443 30.402 -13.339 51.404 1.00 37.30 C ATOM 7527 O ARG B 443 30.402 -13.339 51.404 1.00 37.30 C ATOM 7526 C ARG B 443 30.402 -13.339 51.404 1.00 37.30 C ATOM 7526 C ARG B 443 30.402 -13.339 51.403 51.00 38.50 C ATOM 7527 O ARG B 443 30.402	MOTA	7471	CD2	PHE	В	440	32.	632	-7.803	51.696	1.00	31.85		
ATOM 7474 O PHE B 440 30.343 -10.100 52.195 1.00 30.16 O ATOM 7475 N ALA B 441 29.925 -8.772 53.968 1.00 31.12 N ATOM 7477 CA ALA B 441 30.325 -9.745 54.974 1.00 31.30 C ATOM 7479 CB ALA B 441 30.325 -9.745 54.974 1.00 31.11 C ATOM 7483 C ALA B 441 29.391 -10.955 54.995 1.00 32.14 C ATOM 7484 O ALA B 441 29.391 -10.955 54.995 1.00 32.14 C ATOM 7485 N LEU B 442 28.142 -10.771 54.589 1.00 32.55 O ATOM 7487 CA LEU B 442 27.205 -11.892 54.477 1.00 34.11 C ATOM 7487 CA LEU B 442 27.205 -11.892 54.477 1.00 34.11 C ATOM 7489 CB LEU B 442 25.758 -11.389 54.314 1.00 33.91 C ATOM 7494 CD1 LEU B 442 25.202 -10.628 55.218 1.00 34.88 C ATOM 7494 CD1 LEU B 442 25.202 -10.628 55.218 1.00 34.88 C ATOM 7494 CD1 LEU B 442 27.529 -11.505 56.737 1.00 34.60 C ATOM 7502 C LEU B 442 27.529 -14.056 53.490 1.00 34.73 C ATOM 7502 C LEU B 442 27.529 -14.056 53.490 1.00 34.73 C ATOM 7504 N ARG B 443 28.002 -12.274 52.198 1.00 36.82 C ATOM 7506 CA ARG B 443 28.002 -12.274 52.198 1.00 36.82 C ATOM 7506 CA ARG B 443 28.002 -12.274 52.198 1.00 36.82 C ATOM 7501 C ARG B 443 29.850 -12.552 48.893 1.00 34.03 C ATOM 7501 C ARG B 443 29.455 -12.466 47.393 1.00 41.01 C ATOM 7511 CG ARG B 443 29.455 -12.466 47.393 1.00 41.01 C ATOM 7514 CD ARG B 443 30.402 -13.339 46.604 1.00 43.02 N ATOM 7514 CD ARG B 443 30.402 -13.339 46.604 1.00 43.02 N ATOM 7520 NH1 ARG B 443 30.402 -13.339 46.604 1.00 44.15 N ATOM 7520 NH1 ARG B 443 30.402 -13.339 46.604 1.00 44.15 N ATOM 7520 NH1 ARG B 443 30.402 -13.339 46.604 1.00 44.15 N ATOM 7520 NH2 ARG B 443 30.402 -13.339 46.604 1.00 37.30 C ATOM 7520 NH2 ARG B 443 30.402 -13.339 51.00 30.30 C ATOM 7520 NH2 ARG B 443 30.402 -13.339 51.00 30.30 C ATOM 7520 NH1 ARG B 443 30.402 -13.339 51.00 30.30 C ATOM 7520 NH1 ARG B 443 30.402 -13.339 51.00 30.30 C ATOM 7520 NH2 ARG B 443 30.402 -13.339 51.00 30.30 C ATOM 7530 CD ARG B 443 30.402 -13.339 51.00 30.30 C ATOM 7530 CD ARG B 443 30.402 -13.339 51.00 30.30 C ATOM 7530 CD ARG B 443 30.402 -13.339 51.00 30.30 S C ATOM 7530 CD ARG B 443 30.402 -13.339 51.00 30.30 S C ATOM 7530	MOTA	7473	С	PHE	В	440	29.	913	-9.048	52.662	1.00	30.53		
ATOM 7477 CA ALA B 441 30.325 -9.745 54.974 1.00 31.30 C ATOM 7487 CB ALA B 441 30.379 -9.105 56.343 1.00 31.11 C ATOM 7483 C ALA B 441 29.391 -10.955 54.595 1.00 32.14 C ATOM 7484 O ALA B 441 29.800 -12.049 55.385 1.00 32.55 O ATOM 7487 CA LEU B 442 28.142 -10.771 54.589 1.00 33.22 N ATOM 7487 CA LEU B 442 27.205 -11.892 54.477 1.00 34.11 C ATOM 7489 CB LEU B 442 25.758 -11.389 54.314 1.00 33.91 C ATOM 7494 CD1 LEU B 442 25.758 -11.389 54.314 1.00 33.91 C ATOM 7494 CD1 LEU B 442 25.22 -10.628 55.521 1.00 33.90 C ATOM 7494 CD1 LEU B 442 25.123 -11.505 56.737 1.00 34.60 C ATOM 7502 C LEU B 442 27.593 -12.841 53.332 1.00 34.73 C ATOM 7503 O LEU B 442 27.529 -14.056 53.490 1.00 34.28 O ATOM 7504 N ARG B 443 28.002 -12.274 52.198 1.00 35.79 N ATOM 7506 CA ARG B 443 28.733 -12.121 49.852 1.00 37.27 C ATOM 7506 CB ARG B 443 29.495 -12.552 48.893 1.00 39.03 C ATOM 7511 CG ARG B 443 29.495 -12.552 48.893 1.00 39.03 C ATOM 7514 CD ARG B 443 30.402 -13.339 46.604 1.00 43.02 N ATOM 7510 CARG B 443 30.402 -13.339 46.604 1.00 43.02 N ATOM 7510 CARG B 443 30.402 -13.339 46.604 1.00 43.02 N ATOM 7510 CARG B 443 30.402 -13.339 46.604 1.00 43.02 N ATOM 7510 CARG B 443 30.402 -13.339 46.604 1.00 43.02 N ATOM 7510 CARG B 443 30.402 -13.339 46.604 1.00 43.02 N ATOM 7510 CARG B 443 30.402 -13.339 46.604 1.00 43.02 N ATOM 7520 NH1 ARG B 443 30.402 -13.339 46.604 1.00 43.02 N ATOM 7520 NH1 ARG B 443 30.402 -13.339 46.604 1.00 43.02 N ATOM 7520 CARG B 443 30.402 -13.339 46.604 1.00 43.02 N ATOM 7520 CARG B 443 30.402 -13.339 50.00 57.99 N ATOM 7520 CARG B 443 30.402 -13.339 50.00 37.79 N ATOM 7526 C ARG B 443 30.402 -13.339 50.00 37.79 N ATOM 7527 C ARG B 443 30.402 -13.339 50.00 37.30 C ATOM 7528 N LEU B 444 31.806 -11.301 53.309 1.00 39.42 C ATOM 7536 CB LEU B 444 31.806 -11.301 53.309 1.00 39.42 C ATOM 7537 CD1 LEU B 444 33.485 -11.946 52.437 1.00 39.42 C ATOM 7547 N GLEU B 444 33.9967 -12.493 51.093 1.00 39.42 C ATOM 7546 O LEU B 444 33.9967 -12.493 51.093 1.00 39.42 C ATOM 7547 N GLEU B 444 30.0351 -15.001 54.417 1.00 39.03 N	MOTA	7474	0	PHE	В	440	30.	343	-10.100	52.195	1.00	30.16		
ATOM 7479 CB ALA B 441 30.379 -9.105 56.343 1.00 31.11 C ATOM 7483 C ALA B 441 29.391 -10.955 54.995 1.00 32.14 C ATOM 7485 N LEU B 441 29.800 -12.049 55.385 1.00 32.55 O ATOM 7485 N LEU B 442 28.142 -10.771 54.589 1.00 33.22 N ATOM 7487 CA LEU B 442 27.205 -11.892 54.477 1.00 34.11 C ATOM 7489 CB LEU B 442 25.758 -11.389 54.471 1.00 33.91 C ATOM 7492 CG LEU B 442 25.202 -10.628 55.521 1.00 33.90 C ATOM 7494 CD1 LEU B 442 25.202 -10.628 55.521 1.00 34.88 C ATOM 7498 CD2 LEU B 442 25.202 -10.628 55.521 1.00 34.86 C ATOM 7498 CD2 LEU B 442 25.123 -11.505 56.737 1.00 34.60 C ATOM 7502 C LEU B 442 27.593 -12.841 53.332 1.00 34.73 C ATOM 7504 N ARG B 443 28.002 -12.274 52.198 1.00 35.79 N ATOM 7504 CA ARG B 443 28.464 -13.057 51.053 1.00 36.82 C ATOM 7504 N ARG B 443 28.464 -13.057 51.053 1.00 37.27 C ATOM 7504 CA ARG B 443 28.464 -13.057 51.053 1.00 37.27 C ATOM 7504 CA ARG B 443 29.850 -12.552 48.893 1.00 37.27 C ATOM 7504 CD ARG B 443 29.495 -12.486 47.393 1.00 37.27 C ATOM 7501 CD ARG B 443 30.348 -13.500 45.277 1.00 43.98 C ATOM 7517 NE ARG B 443 30.348 -13.500 45.277 1.00 43.98 C ATOM 7519 CZ ARG B 443 30.348 -13.500 45.277 1.00 43.98 C ATOM 7528 N LEU B 444 32.9694 -13.903 51.446 1.00 37.30 C ATOM 7528 N LEU B 444 32.9694 -13.903 51.446 1.00 37.31 O ATOM 7528 N LEU B 444 33.483 -13.500 51.446 1.00 37.31 O ATOM 7528 N LEU B 444 33.650 -11.301 53.319 1.00 38.56 C ATOM 7537 CD LEU B 444 33.650 -11.301 53.309 1.00 39.03 C ATOM 7528 N LEU B 444 33.804 -14.014 52.703 1.00 37.31 O ATOM 7530 CA LEU B 444 33.650 -11.301 53.198 1.00 39.42 C ATOM 7537 CD LEU B 444 33.483 -11.946 52.437 1.00 39.927 C ATOM 7546 C LEU B 444 33.650 -11.301 53.198 1.00 39.42 C ATOM 7547 N GLN B 444 33.650 -11.5001 54.417 1.00 39.03 N ATOM 7546 C LEU B 444 33.650 -11.5001 54.417 1.00 39.03 N ATOM 7547 N GLN B 444 33.937 -12.599 55.421 1.00 39.48 C	MOTA	7475	N				29.	925	-8.772	53.968	1.00	31.12		N
ATOM 7483 C ALA B 441 29.391 -10.955 54.995 1.00 32.14 C ATOM 7484 O ALA B 441 29.800 -12.049 55.385 1.00 32.55 O ATOM 7485 N LEU B 442 28.142 -10.771 54.589 1.00 33.22 N ATOM 7487 CA LEU B 442 27.205 -11.892 54.477 1.00 34.11 C ATOM 7489 CB LEU B 442 25.758 -11.389 54.314 1.00 33.91 C ATOM 7492 CG LEU B 442 25.758 -11.389 54.314 1.00 33.90 C ATOM 7494 CD1 LEU B 442 25.202 -10.628 55.521 1.00 33.90 C ATOM 7498 CD2 LEU B 442 23.829 -10.0628 55.521 1.00 34.88 C ATOM 7503 C LEU B 442 27.593 -12.841 53.332 1.00 34.73 C ATOM 7503 O LEU B 442 27.593 -12.841 53.332 1.00 34.73 C ATOM 7504 N ARG B 443 28.002 -12.274 52.198 1.00 34.28 O ATOM 7506 CA ARG B 443 28.464 -13.057 51.053 1.00 36.82 C ATOM 7508 CB ARG B 443 28.733 -12.121 49.852 1.00 37.27 C ATOM 7511 CG ARG B 443 29.850 -12.552 48.893 1.00 39.03 C ATOM 7517 NE ARG B 443 30.402 -13.339 46.604 1.00 43.02 N ATOM 7517 NE ARG B 443 30.402 -13.339 46.604 1.00 43.98 C ATOM 7520 NH1 ARG B 443 29.485 -12.486 47.393 1.00 41.01 C ATOM 7520 NH1 ARG B 443 29.485 -12.865 44.544 1.00 44.15 N ATOM 7520 NH1 ARG B 443 29.485 -12.865 44.544 1.00 44.15 N ATOM 7520 NH1 ARG B 443 29.694 -13.303 51.446 1.00 37.30 C ATOM 7520 NH1 ARG B 443 29.694 -13.303 51.446 1.00 37.31 O ATOM 7528 N LEU B 444 32.9694 -13.303 51.446 1.00 37.31 O ATOM 7528 N LEU B 444 32.9694 -13.903 51.446 1.00 37.31 O ATOM 7528 N LEU B 444 32.9694 -13.903 51.446 1.00 37.31 O ATOM 7530 CA LEU B 444 32.9694 -13.903 51.446 1.00 37.31 O ATOM 7528 N LEU B 444 32.9694 -13.903 51.446 1.00 37.31 O ATOM 7530 CA LEU B 444 32.8000 -12.500 51.972 53.946 1.00 39.27 C ATOM 7537 CD LEU B 444 32.800 -12.500 53.793 1.00 39.42 C ATOM 7537 CD LEU B 444 33.804 -14.014 52.703 1.00 39.42 C ATOM 7545 C LEU B 444 33.967 -12.493 51.093 1.00 39.49 C ATOM 7545 C LEU B 444 33.967 -12.493 51.093 1.00 39.49 C ATOM 7545 C LEU B 444 33.967 -12.493 51.093 1.00 39.49 C ATOM 7545 C LEU B 444 33.967 -12.493 51.093 1.00 39.49 C ATOM 7546 O LEU B 444 32.920 -15.972 53.946 1.00 39.97 N ATOM 7547 N GLN B 445 30.351 -15.001 54.417 1.00 39.03 N				ALA	В	441	30.	325	-9.745	54.974	1.00	31.30		
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ATOM ATOM ATOM ATOM ATOM ATOM ATOM	7554 7557 7558 7559 7562 7563 7564 7566	NE2 C O N CA	GLN II GLN II GLN II GLN II GLN II ASP II	B B B B B B	445 445 445 445 445 446 446		29.374 28.303 29.904 28.958 28.558 28.570 27.636	-14.414 -13.280 -13.508 -12.062 -17.022 -17.953 -16.856 -17.775	57.476 58.152 58.721 58.079 54.846 55.549 53.583 52.926	1.00 1.00 1.00 1.00 1.00 1.00	40.48 41.27 41.73 41.86 39.62 39.83 39.69 39.90		C C O N C O N C	
ATOM ATOM	7568 7571	.CB CG	ASP I					-19.220 -20.064	52.986 51.805		40.14 40.55	•	C C	
MOTA	7572	OD1	ASP I	В	446	2	27.232	-19.486	50.812		40.10		ŏ	
ATOM	7573		ASP I					-21.315	51.786		41.94		0	
ATOM ATOM	7574 7575	С 0	ASP I					-17.699 -18.697	53.518 53.549		39.64 39.62		C	
ATOM	7576	N	LYS					-16.507	53.985		39.29		N	
ATOM	7578	CA	LYS		447			-16.198	54.428		38.85			C
MOTA	7580	CB	LYS :					-15.369	55.721		38.99		· C	;
ATOM	7583	CG	LYS					-15.927	56.749		39.99		С	
ATOM ATOM	7586 7589	CD	LYS					-15.482 -16.391	58.201		40.92	•	C	;
ATOM	7592	NZ	LYS :		447			-15.812	59.168 60.527		41.86 42.16		. С	
ATOM	7596	C	LYS		447			-15.440	53.284		38.09		C	
ATOM	7597	0	LYS	В	447	:	24.282	-14.348	52.921		38.31		Ö	
MOTA	. 7598	N	LYS					-16.044	52.679		37.06	•	N	
ATOM ATOM	7600 7602	CA CB	LYS		448			-15.429	51.555		36.00		C	
ATOM	7602	CG	LYS LYS					-16.482 -17.241	50.523 49.867		36.12 36.81		C	
ATOM	7608	CD	LYS.					-16.366	48.905		37.64		· c	
MOTA	7611	CE	LYS					-16.967	48.656		38.58		c	
ATOM	7614	NZ	LYS					-16.218	49.345		38.48		N	1
ATOM	7618	C	LYS					-14.660	52.071		34.89	•	C	
ATOM ATOM	7619 7620	N O	LYS LEU					-15.040 -13.560	53.082		34.58		0	
ATOM	7622	CA	LEU					-12.786	51.386 51.648		33.41 32.25		N C	
ATOM	7624	СВ	LEU					-11.327	51.260		31.84	•	č	
MOTA	7627	CG	LEU					-10.552	52.087	1.00			С	7
ATOM	7629		LEU				20.834	-9.203	51.465		29.32		C	:
ATOM ATOM	7633 7637	CD2	LEU LEU					-10.419 -13.360	53.526 50.868		28.15 31.93		C	:
MOTA	7638	Ö	LEU					-14.044	49.860			•	0	
ATOM	7639	N	PRO					-13.083	51.324		31.45		N	
MOTA	7640	CA	PRO					-13.504	50.585		31.01		С	3
ATOM	7642 7645	CB	PRO					-13.158	51.544		31.37		C	:
MOTA MOTA	7648	CG CD	PRO PRO					-12.895 -12.322	52.857 52.536		31.77 31.42		0	
ATOM	7651	C	PRO					-12.698	49.279		30.32		0	_
MOTA	7652	0	PRO					-11.544	49.270		29.65		Č	
ATOM	7653	N	PRO					-13.295	48.232	1.00	29.63		N	
MOTA	7654	CA	PRO					-12.658	46.920		29.20		C	3
ATOM ATOM	7656 7659	CB CG	PRO PRO					-13.496 -14.923	46.298 46.803		29.78			3
ATOM	7662	CD	PRO					-14.925 $-14.696$	48.221		29.58 30.20			-
MOTA	7665	C	PRO					-11.154	46.846		28.57		Č	
MOTA	7666	0	PRO	В	451		15.275	-10.462	46.118	1.00	28.26		C	)
MOTA	7667	N	LEU					-10.650	47.552		27.85		N	1
ATOM ATOM	7669 7671	CA CB	LEU LEU				13.300	-9.222	47.473		27.84		. 0	;
ATOM	7674	CG	LEU				12.015 11.493	-8.872 -7.431	48.232 48.108		27.62 28.13		C	-
ATOM	7676		LEU				10.753	-7.168	46.780		28.76		C	2
ATOM	7680	CD2	LEU	В	452		10.575	-7.090	49.262	1.00	28.05			2
MOTA	7684	С	LEU	В	452		14.489	-8.373	47.979	1.00	27.83		. C	3

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	ATOM	7685	0	LEU		452	]	4.794	-7.336	47.399	1.00	27.31	0
	MOTA	7686	N	LEU		453		l5.151	-8.816	49.054	1.00	27.69	N
	ATOM	7688	CA	LEU	В	453	3	16.289	-8.075	49.602	1.00	27.42	С
	MOTA	7690	CB	LEU				16.611	-8.523	51.042	1.00	27.10	С
	ATOM	7693	CG	LEU				L5.447	-8.370	52.046	1.00	26.10	С
	MOTA	7695		LEU				L5.928	-8.521	53.480	1.00	25.11	С
	MOTA	7699	CD2	LEU	В	453		L4.705	-7.058	51.868	1.00	26.13	С
	ATOM	7703	С	LEU	В	453	:	L7.512	-8.215	48.710	1.00	27.66	C
	ATOM	7704	0	LEU	В	453	:	18.213	-7.252	48.457	1.00	26.54	0
	ATOM	7705	N	SER	В	454	:	17.750	-9.423	48.230	1.00	28.50	N
	MOTA	7707	CA	SER	В	454		18.856	-9.680	47.317	1.00	29.60	C
	ATOM	7709	CB	SER	В	454		18.898	-11.151	46.927		29.24	Č
	ATOM	7712	OG	SER	В	454			-11.551			28.29	ō
	ATOM	7714	С	SER	В	454		18.756	-8.833	46.058		30.98	Ċ
	ATOM	7715	0	SER	В	454	:	19.738	-8.280	45.598		30.30	ō
	ATOM	7716	N	GLU	В	455		17.546		45.531		33.26	N
	ATOM	7718	CA	GLU				17.220	-7.905	44.371		35.66	C
	ATOM	7720	СВ	GLU				15.707	-8.032	44.086		36.15	č
	ATOM	7723	CG	GLU				15.263		42.691		39.50	Č
	ATOM	7726	CD	GLU				13.842		42.656		43.95	c
	ATOM	7727	OE1					13.642		41.923		46.30	Ö
	ATOM	7728	OE2					12.926		43.346		45.31	ŏ
	MOTA	7729	С	GLU				17.628		44.504		36.35	č
	ATOM	7730	Ō	GLU				18.015		43.514		36.57	ŏ
	ATOM	7731	N			456		17.547		45.705		37.41	N
	ATOM	7733	CA	ILE				17.870		45.900		38.54	C
	ATOM	7735	CB			456		16.995		46.989		39.45	č
	ATOM	7737		ILE				15.584		46.966		41.19	č
	ATOM	7740	CD1	ILE				15.094		48.349		43.54	c
	ATOM	7744	CG2					16.922		46.842		40.69	c
	ATOM	7748	C			456		19.306		46.321		38.55	C
	ATOM	7749	ŏ			456		19.827		46.049		39.13	ŏ
	ATOM	7750	N			457		19.935		46.997		38.56	N
	ATOM	7752	CA			457		21.187		47.695		39.22	C
	ATOM	7754	CB			457		20.997		49.196		38.75	C
	ATOM	7757	CG	TRP		457		20.060		49.811		36.73	C
	MOTA	7758	CD1					19.845		49.455		35.13	C
	MOTA	7760	NE1					18.894		50.269		34.94	
	ATOM	7762		TRP				18.508		51.196		33.63	N C
	ATOM	7763		TRP				19.225		50.932		34.53	
	ATOM	7764	CE3			457		18.996		51.744		35.16	C
	ATOM	7766		TRP				18.079		52.766		35.33	C
	ATOM	7768	CH2			457		17.378		52.700		35.72	C
	ATOM	7770		TRP				17.584		52.220		34.02	C
	ATOM	7772	C			457		22.403					_
	ATOM	7.773	Ö			457		22.403 23.519				40.58	C
	ATOM	7774	N			458				47.550		40.81	0
	ATOM	7776	CA			458		22.205 23.335		46.703		42.46	N
	ATOM	7778	CB			458				46.243		43.79	C
								23.021		46.277		43.86	C
	MOTA	7781	CG			458		23.067		47.687		43.70	C
	ATOM	7782		ASP					-10.079	48.149		43.49	0
	MOTA	7783		ASP				22.071		48.421		43.98	0
	MOTA	7784	C			458		23.770		44.850		45.14	C
	MOTA	7785	0			458		22.939		43.968		44.86	0
	ATOM	7786	N			459		25.087		44.671		46.62	N
	ATOM	7788	CA			459		25.677		43.382		47.79	C
	ATOM	7790	CB			459		27.184		43.539		48.10	C
	MOTA	7792		VAL				27.761		42.224		48.81	C
	ATOM	7796		VAL				27.396		44.724		48.27	C
	ATOM	7800	C			459		25.448		42.420		48.37	C
-	_MOTA_	_78.01_	_0	_VAL	_В	459		<u>24.879</u>	-7.851	41.330	1.00	48.63	 0
											_		 

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	7802 7804 7806 7810 7811 7812 7813 7814 7815 7818 7819 7821 7823	CA CB C O O37 C35 O36 C34 C32 C33 C31 C30	ALA ALA ALA ALA GW3 GW3 GW3 GW3 GW3 GW3 GW3 GW3 GW3	B B B B B B B B B B B B B B B B B B B	460 460 460 500 500 500 500 500 500 500		24.120 26.087 27.291 8.754 8.030 6.816 8.501 10.000 10.693 10.702 12.080	-9:208 -10.453 -10.826 -10.381 -10.328 -1.467 -1.164 -0.832 -1.270 -1.306 -2.503 -0.108 -0.101	42.851 42.120 42.193 40.660 40.385 61.961 60.974 61.085 59.540 59.568 59.749 59.501	1.00 4 1.00 4 1.00 4 1.00 5 1.00 5 1.00 5 1.00 5 1.00 5 1.00 5	49.35 49.37 49.70 49.95 21.14 21.33 21.69 19.45 21.09 22.33 20.76 21.26	N C C C O O C O C C C C C
ATOM ATOM	7825 7827		GW3 GW3				12.780 12.082	-1.289 -2.495	59.769 59.849	1.00		C
ATOM	7828		GW3			•	12.727	-3.692	60.010	1.00		ŏ
MOTA	7829	C26	GW3	В	500		14.141	-3.775	60.164	1.00		С
ATOM	7832		GW3				14.455	-5.133	60.776	1.00		C
ATOM ATOM	7835 7838		GW3				15.789 16.988	-5.126 -5.079	61.531 60.713		22.57	
ATOM	7839		GW3				17.042	-5.980	59.567	1.00 1.00		С И.
ATOM	7842		GW3				17.898	-5.643	58.368	1.00		č
ATOM	7843		GW3	В	500		18.894	-6.616	57.880	1.00		С
ATOM	7844		GW3				19.150	-8.190	58.729	1.00		CT.
MOTA MOTA	7845 7847		GW3 GW3				17.728 18.495	-4.467 -4.181	57.648	1.00		C
ATOM	7849		GW3				19.460		56.512 56.039	1.00		
ATOM	7851		GW3				19.688	-6.273	56.678	1.00		. Č
MOTA	7852		GW3				20.729	-7.242	56.180		43.09	C
MOTA	7853		GW3				21.793		56.983		43.65	F
ATOM	7854		GW3				21.077		54.925		42.94	F
ATOM ATOM	7855 7856	F42	GW3 GW3				20.222 18.226		56.232 61.323	1.00	19.42	F C
ATOM	7859		GW3		500		18.167		61.780		17.71	C
ATOM	7861		GW3				19.252		62.772		16.60	C.
ATOM	7862		GW3				20.534		62.647		18.23	C
ATOM	7864		GW3		500		21.531		63.593		17.02	C
ATOM ATOM	7866 7868		GW3 GW3				21.241 19.972		64.672 64.807		16.12	C C
ATOM	7870		GW3		500		18.991		63.868		14.93 14.57	C
MOTA	7872		GW3			•	18.269		60.620		15.98	Č
ATOM	7873		GW3				17.241	-1.306	60.395		15.06	С
MOTA	7875		GW3		500		17.289		59.333		15.36	C
ATOM ATOM	7877 7879		GW3 GW3				18.370 19.398		58.464		16.16 16.09	C C
ATOM	7881		GW3				19.359		58.689 59.771		13.56	C
ATOM	7883	04			501		6.727		56.348		41.79	· 0.
MOTA	7885	C2	IOH	В	501		6.928	4.483	54.955	1.00	38.97	. C
ATOM	7887	C3			501		7.991		54.403		37.54	, Ğ
MOTA	7891 7895	C1			501	•	7.342		54.790		39.36	C
MOTA MOTA	7897	n ca			220 220		-1 866	112.946 113.110	100.447		18.87 19.26	N C
ATOM	78,99	CB			220			113.749			19.49	C
MOTA	7902	CG	LEU	С	220			112.935	99.763	1.00	19.18	С
ATOM	7904		LEU					113.826	99.175		19.39	C
MOTA	7908 7912							111.790			19.53	C
MOTA MOTA	7912				220 220			113.981 115.092			19.20 19.47	C 0
ATOM	7916				221			113.052			18.88	N
ATOM	7918	CA	THR	C	221		-2.518	3 114.224	104.981		18.78	С
MOTA	7920	CB	THR	С	221		-2.515	113.325	106.227	1.00	18.57	С

ATOM 792	2 OG1 5	THR C	221	-1.232	112.697	106.349	1.00 18.19		0
ATOM 792			221	-3.513	112.156	106.089	1.00 17.48		č
ATOM 792	BC :	THR C	C 221	-1.479	115.313	105.169	1.00 18.66		č
ATOM 792	90 !	THR (	C 221	-0.394	115.246	104.605	1.00 18.69		ŏ
ATOM 793	0 N 2	ALA (	C 222		116.290		1.00 18.45		N
ATOM 793	2 CA 2	ALA (	C 222	-0.899	117.404	106.259	1.00 18.07		C
ATOM 793	4 CB 2	ALA (	222		118.474		1.00 18.24		č
ATOM 793	8 C 2	ALA (	C 222		116.957		1.00 17.91		č
ATOM 793	90	ALA (	C 222	1.444	117.542	106.666	1.00 17.31		ŏ
ATOM 794	0 N 2	ALA (	C 223	0.319	115.933	107.784	1.00 17.90		N
ATOM 794	2 CA 2	ALA (	C 223	1.515	115.342	108.397	1.00 18.20		C
ATOM 794			C 223	1.130	114.368	109.535	1.00 18.08		C
ATOM 794		ALA (	C 223		114.638		1.00 18.47		c
ATOM 794	90	ALA (	C 223	3.652	114.679	107.479	1.00 19.33		ŏ
ATOM 795	0 N (	GLN (	C .224	1.826	114.003	106.367	1.00 18.54		N
ATOM 795	2 CA (	GLN (	C 224	2.597	113.414	105.265	1.00 19.03		"c
ATOM 795	4 CB (	GLN (	C 224	1.717	112.519	104.392	1.00 18.60		c
ATOM 795	7 CG (	GLN (	C 224	1.353	111.229	105.093	1.00 18.65		č
ATOM 796	O CD (	GLN (	C 224		110.329		1.00 18.87		č
ATOM 796		GLN (			110.818		1.00 19.17		ŏ
ATOM 796	2 NE2 (	GLN (	C 224	0.727	109.009	104.309	1.00 16.75		N
ATOM 796	5 C (	GLN (	C 224	3.262	114.483	104.407	1.00 19.01		C
ATOM 796	60	GLN (	C 224	4.418	114.355	104.064	1.00 19.36		ŏ
ATOM 796			C 225	2.532	115.530	104.067	1.00 19.27		N
ATOM 796	9 CA (	GLU (	C 225	3.083	116.640	103.290	1.00 19.85		Ĉ
ATOM 797	1 CB (	GLU (	C 225	1.989	117.665	102.986	1.00 19.94		c
ATOM 797	4 CG (	GLU (	C 225	1.021	117.179	101.936	1.00 21.92		č
ATOM 797	7 CD (	GLU (	C 225		118.231		1.00 25.61		č
ATOM 797	8 OE1 (	GLU (	C 225	-0.425	119.047	102.395	1.00 27.21		ŏ
ATOM 797		GLU (	C 225	-0.399	118.223	100.323	1.00 26.40		ŏ
ATOM 798		GLU (		4.230	117.336	104.021	1.00 19.69		č
ATOM 798		GLU (	C 225	5.224	117.711	103.415	1.00 19.29		ŏ
ATOM 798			C 226		117.513		1.00 19.81		N
ATOM 798		LEU (		5.056	118.090	106.204	1.00 19.75		Ċ
ATOM 798		LEU (	C 226	4.534	118.129	107.649	1.00 19.32		č
ATOM 798			C 226	5.504	118.634	108.724	1.00 18.59		Ċ
ATOM 799		LEU (		5.799	120.123	108.512	1.00 18.72		Č
ATOM 799			C 226	4.932	118.394	110.102	1.00 18.51		Ċ
ATOM 799			C 226		117.263		1.00 20.57		C
MOTA 800		LEU (			117.797		1.00 20.55		0
ATOM 800			C 227	6.202	115.956	106.272	1.00 21.50		N
ATOM 800			C 227	7.380	115.097	106.323	1.00 23.14		С
ATOM 800		MET (	C 227	7.050	113.723	106.940	1.00 23.60		С
ATOM 800			C 227	6.822	112.605	105.948	1.00 29.90		С
ATOM 801			C 227	6.915	110.955	106.707	1.00 39.06		S
ATOM 801			C 227	5.699	111.169	107.969	1.00 38.81		С
ATOM 801			C 227		115.007		1.00 22.02		С
ATOM 801			C 227		115.057		1.00 22.38		0
ATOM 801			C 228	7.318	114.931	103.869	1.00 20.67		N
ATOM 802			C 228	7.885	114.908	102.516	1.00 19.93		С
ATOM 802		ILE (	C 228	6.793	114.573	101.470	1.00 19.41		С
ATOM 802		ILE (	C 228		113.147		1.00 18.75	•	С
ATOM 802			C 228		112.910		1.00 19.38		С
ATOM 803			C 228	7.306	114.765	100.055	1.00 19.58		С
ATOM 803			C 228	8.580	116.223	102.144	1.00 19.60		С
ATOM 803			C 228	9.687	116.196	101.642	1.00 19.79		0
ATOM 803		GLN (	C 229	7.917	117.361	102.374	1.00 19.12		N
ATOM 803			C 229		118.681		1.00 18.52		С
Mail. 1960 M. 1971 M.			C 229	7.466	119.810	102.366	1.00 18.93		С
ATOM 804	A ~~								
ATOM 804			C 229	6.339	119.892	101.282	1.00 20.68		С
			C 229 C 229	6.339 5.131	119.892 120.826	101.282 101.661	1.00 20.68 1.00 23.87		C C

ATOM	0040	071	~	_									
·· <del>-</del>	8048		GLN			4.691 121	.645	100.845		24.75			0
MOTA	8049		GLN			4.609 120	. 687	102.885	1.00	26.71			N
ATOM	8052	С				9.738 118	.890	103.042	1.00	17.73	•		С
MOTA	8053	0	GLN	С	229	10.683 119	.534	102.633	1:00	17.45			ō
MOTA	8054	N	GLN	С	230	9.738 118	.332	104.248		16.98		•	N·
ATOM ·	8056	CA	GLN			10.945 118	321	105 078		16.64		•	
ATOM	8058	CB	GLN			10.707 117	550	105.070					C
ATOM	8061	CG	GLN			11 036 117	. 336	100.391		16.42			C
ATOM			CLM	$\stackrel{\sim}{\sim}$	230	11.836 117	. 685	107.371		15.46	•		C
	8064	CD	GLN			11.893 119				14.19			Ċ
ATOM	8065		GLN			11.112 119	.916	107.695	1.00	17.78			0
ATOM	8066		GLN			12.827 119	.198	108.917	1.00	19.79			N
ATOM	8069	С	GLN	С	230	12.143 117	.666	104.377	1.00	16.24			. Ç
MOTA	8070	0	GLN	С	230	13.230 118				15.92			Õ
ATOM	8071	N	LEU	С	231	11.918 116	481	103 805		15.98			N
ATOM	8073	CA			231	12.954 115	691	103.005					14
ATOM	8075	СВ			231	12.411 114	220	103.141		16.11			· ·
ATOM	8078	CG	LEU			12.411 114	320	102.691		16.41			С
ATOM						12.065 113	.304	103.790		15.91	•		C
	8080		LEU			11.800 111	.893	103.219		15.15			ONC CCCC
ATOM	8084		LEU			13.170 113			1.00	17.22			C
MOTA	8088	С	LEU			13.485 116	.430	101.942	1.00	16.02-			С
MOTA	8089	0			231		.480	101.726	1.00	16.40			0
MOTA	8090	N	VAL	С	232	12.591 117	.047	101.191		16.32			N
ATOM	8092	CA	VAL	С	232	12.930 117				15.86			Ç
MOTA	8094	CB			232	11.656 117				15.91			Ċ
MOTA	8096		VAL			11.911 118							C
ATOM	8100		VAL			10.979 116				15.14			C
ATOM	8104									16.53			С
		C			232	13.721 118	.933			16.07			С
ATOM	8105	0			232	14.623 119				15.57			0
ATOM	8106	N			233	13.384 119	.598	101.288	1.00	16.72			N
ATOM	8108	CA			233	13.974 120			1.00	17.30			С
ATOM	8110	CB	ALA	С	233	13.088 121	.677	102.551		17.06			Ċ
MOTA	8114	С	ALA	С	233.	15.352 120	.678	102.198		18.01			Č
ATOM	8115	0			233	16.247 121	.479	101 957		18.07			ŏ
ATOM	8116	N			234	15.511 119	608	102 978		18.89			N
ATOM	8118	CA			234	16.817 119	210	102.370					ΙΛ ΓΛ
ATOM	8120	CB			234	16.679 118				20.13			C
ATOM	8124	C			234					20.02			
ATOM	8125					17.756 118	. 80T	102.355	•	21.35			С
		0			234	18.930 119	. 110	102.379		21.43			0
ATOM	8126	N			235	17.222 118	.093	101.373	1.00	23.22	_		N
ATOM	8128	CA			235	17.988 117			1.00	24.76			С
ATOM	8130	CB			235	17.101 116			1.00	24.76			C
ATOM	8133	CG	${\tt GLN}$	С	235	17.864 115	.909	98.363		26.38			С
ATOM	8136	CD	GLN	С	235	16.978 114	.874	97.687		27.51			Č
ATOM	8137	OE1	GLN	С	235	16.122 115				28.36			ŏ
ATOM	8138	NE2	GLN	С	235	17.191 113			1.00				
ATOM	8141	С	GLN	Č	235	18.514 118				25.74			
MOTA	8142	O			235	19.696 118							C
ATOM	8143	Ň			236					25.87			0
ATOM	8145	CA				17.620 119				27.09			N
					236	17.975 120				28.40			С
ATOM	8147	CB			236	16.730 121			1.00	28.61			C
ATOM	8150	CG			236	16.998 123			1.00	29.58			C
MOTA	8152		LEU			17.126 122			1.00	29.51			С
MOTA	8156	CD2	LEU	С	236	15.934 124	.145	97.481	1.00	29.96			С
MOTA	8160	С	LEU	С	236	18.997 121	.809	99.246		29.64			Č
MOTA	8161	0			236	19.898 122				29.50			õ
MOTA	8162	N			237	18.853 123				30.95			
ATOM	8164	CA			237	19.717 122	657	100.303					И
ATOM	8166	CB			237	19.109 122				32.29			C
ATOM	8169	CG			237	10 006 103		102.029		32.69			C
ATOM	8172	CD				18.026 123	T	102.926		34.37			C
ATOM	8173				237	17.703 124	. 358	104.366		36.57			C
-11 OF	01/3	OFI	GLN	C	231	18.165 123	. /63	105.354	1.00	37.85			0

ATOM	8174	NE2	GLN	С	237		16.912	125.420	104.474	1 00	36.78	N
ATOM	8177	C	GLN				21 110	122.042	101.174			
ATOM	8178		GLN				21.110	122.042	101.515		33.08	C
		0						122.759			32.91	0
ATOM	8179	. <b>N</b>	CYS					120.711			34.30	N
ATOM	8181	CA	CYS					119.959		1.00	35.29	С
ATOM	8183	CB	CYS	С	238	:	22.130	118.495	102.050	1.00	35.18	С
ATOM	8186	SG	CYS	С	238			118.233			36.28	S
MOTA	8187	С	CYS					120.026			36.15	Č
ATOM	8188	ŏ	CYS			:	24 426	120.198	100.336			
ATOM	8189		ASN								36.59	. 0
		N						119.924	99.260		37.18	N
MOTA	8191	CA	ASN					119.984	97.955		38.14	С
MOTA	8193	CB	ASN					119.148	96.918		38.24	С
MOTA	8196	CG	ASN				22.074	119.921	95.658	1.00	39.13	С
ATOM	8197	OD1	ASN	С	239		20.957	120.427	95.500	1.00	39.88	^
ATOM	8198	ND2	ASN	С	239	:	23.046	120.017	94.748		39.76	N
ATOM	8201	C .	ASN					121.448			38.61	· C
ATOM	8202	ō.	ASN					121.689	96.666		38.64	~~~
ATOM	8203	N	LYS		240			122.411	98.070			0
ATOM	8205										39.15	N
		CA	LYS					123.841			39.51	С
MOTA	8207	CB	LYS					124.704			39.54	<b>C</b> .
MOTA	8210	CG	LYS		240			126.215	98.547		39.40	C
MOTA	8213	CD	LYS	С	240		20.992	126.934	99.298	1.00	39.36	C
MOTA	8216	CE	LYS	С	240		21.499	127.786	100.484		39.27	C
ATOM	8219	NZ	LYS	С	240		22.193	129.051	100.069		37.35	
ATOM	8223	С			240			124.188	98.681		39.89	C
MOTA	8224	ō			240			125.136			39.84	Ö
ATOM	8225	N			241			123.397				
ATOM	8227										40.30	и С С С
		CA	ARG					123.575			40.69	C
ATOM	8229	CB			241		25.636	122.759	101.864		40.77	C
MOTA	8232	CG	ARG				26.249	123.401	103.111		41.52	C
ATOM	8235	CD	ARG	С	241		25.525	123.062	104.433	1.00	42.15	С
MOTA	8238	NE	ARG	C	241		24.353	123.917	104.653	1.00	43.09	N C
ATOM	8240	CZ	ARG	С	241		24.387	125.216	104.988		44.14	C
ATOM	8241		ARG				25.543	125.864	105.164		44.34	N
ATOM	8244		ARG				23 244	125.881	105 147		44.22	N
ATOM	8247	С			241		27 115	123.201	99.869		40.77	
ATOM	8248	ŏ			241			123.438				C
ATOM	8249				242		20.10/	123.430	100.425		40.80	
		N						122.620			41.06	N
ATOM	8251	CA			242			122.219			41.04	С
MOTA	8253	CB			242			120.723			41.11	С
ATOM	8256	OG			242			120.028	98.761		40.52	0
MOTA	8258	С	SER	С	242		28.383	122.981	96.559	1.00	41.14	С
ATOM	8259	0	SER	С	242		29.381	122.784	95.860	1.00	41.28	0 0 0 0 N C
ATOM	8260	N	PHE	С	243		27.417	123.831	96.210		41.19	พ
MOTA	8262	CA	PHE	С	243			124.812			41.30	Ċ
ATOM	8264	CB	PHE	C	243			125.665	94.910		41.49	Č
ATOM	8267	CG			243			124.930			42.57	C
MOTA	8268		PHE					123.547				
ATOM			PHE						94.038		43.04	C
	8270							122.905	93.457		43.24	С
ATOM	8272	CZ			243			123.636			43.20	C
MOTA	8274		PHE					125.007	93.328		43.18	C
ATOM	8276	CD2	PHE					125.646		1.00	43.10	С
ATOM	8278	С			243			125.755		1.00	40.99	С
MOTA	8279	0	PHE	С	243		29.512	126.199	94.635		41.16	O
ATOM	8280	N	SER	С	244			126.054	96.805		40.55	N
ATOM	8282	CA			244			126.974	97.349		40.11	C
MOTA	8284	CB			244			127.581				
ATOM	8287	OG			244						40.14	C
								126.642			40.31	0
MOTA	8289	C			244			126.328			39.56	С
ATOM	8290	0			244			127.029			39.45	0
_ATOM	8291	_N	ASP	<u>C</u>	245		J1.282	125.001	97.699	1.00	38.94	N

MOTA	8293		ASP		245		124.242	97.862	1.00	38.34		С
MOTA	8295		ASP				122.993	98.732		38.29		С
ATOM	8298		ASP		245		123.336	100.166		38.21		· C
MOTA	8299		ASP		245		124.445	100.661		37.96		0.
ATOM	8300		ASP				122.543	100.882		37.27	•	. 0
MOTA	8301	C	ASP		245	33.187		96.520		37.78		C
ATOM ATOM	8302 8303	O N	ASP GLN				123.085 124.335	96.507 95.404		37.74 37.07		0
ATOM	8305	CA	GLN		246		124.333	94.069		36.48		C.
ATOM	8307	CB	GLN				124.531	92.973		36.56		Č
ATOM	8310	CG	GLN				123.413	92.153	1.00			č
ATOM	8313	CD	GLN		246		123.916	90.898		37.34		Ċ
ATOM	8314	OE1					124.698	90.133		37.73		Ö
MOTA	8315	NE2	GLN	С	246	29.696	123.468	90.684		36.99		N
MOTA	8318	С	GLN			34.600	124.624	93.789	1.00	35.79		· C
MOTA	8319	0	GLN	С	246	35.441	123.930	93.215	1.00	35.64		0
MOTA	8320	N	PRO				125.881	94.167		34.98		N ·
MOTA	8321	CA	PRO				126.525	93.844		34.39		С
ATOM	8323	CB	PRO				128.005	94.218		34.46		C
ATOM	8326	CG	PRO				128.134	94.692		34.61		C
MOTA	8329	CD	PRO				126.776			34.91		C
ATOM MOTA	8332	С	PRO				125.961			33.70		C
ATOM	8333 8334	O N	PRO LYS				126.285 125.159			33.73 32.78		O N
ATOM	8336	CA	LYS				124.559			31.98		C
ATOM	8338	CB	LYS				124.984			31.98		č
ATOM	8341	CG	LYS				126.457			31.80		č
ATOM	8344	CD	LYS				126.732			31.11		č
MOTA	8347	CE	LYS				128.051			31.01		Č
ATOM	8350	NZ	LYS	С	248	41.728	128.557	97.541	1.00	30.77		N
MOTA	8354	С			248		123.037		1.00	31.22		C
ATOM .	8355	0	LYS				122.320			31.21		. 0
ATOM	8356	N	VAL				122.567			30.37		N
MOTA	8358	CA			249		121.151			29.85		C
ATOM	8360	CB	VAL		249		120.514			29.80		C
MOTA MOTA	8362 8366	CG1 CG2					119.038			29.53		Ċ
ATOM	8370	CGZ	VAL		249		120.671 121.052			29.75 29.44		C
ATOM	8371	ŏ			249		122.026			29.48		Ö
ATOM	8372	Ň			250		119.897			28.90		N
ATOM	8374	CA			250		119.664			28.57		C
MOTA	8376	CB	THR	С	250		118.215			28.56		Ċ
MOTA	8378	OG1	THR	С	250	42.623	118.016			28.79		0
MOTA	8380	CG2	THR			43.017	117.951	91.661	1.00	28.45		С
ATOM	8384	C			250		119.916			28.27		С
ATOM	8385	0			250		119.224			28.29		0
ATOM	8386	N			251		120.911			27.77		N
ATOM	8387	CA			251		121.209			27.44		C
ATOM ATOM	8389 8392	CB CG			251 251		7 122.408 9 122.975			27.49 27.63		C
MOTA	8395	CD			251		121.835			27.77		C
ATOM	8398	C			251		2 120.034			27.10	•	Ċ
ATOM	. 8399	ŏ			251		119.563			27.15		õ.
ATOM	8400	N			252		119.586			26.58		N
ATOM	8402	CA			252		118.400			26.32		Ċ
MOTA	8404	CB			252		118.429			26.17		Ċ
ATOM	8407	CG			252		117.305	84.848		26.16		Ċ
MOTA	8408		TRP				L 117.394			26.45		С
ATOM	8410		TRP				3 116.152			26.21		Ŋ
ATOM	8412	CE2	TRP	С	252		1 115.230			26.08		С
ATOM	8413	CD2	TRP	С	252	38.25	2 115.924	85.126	1.00	25.85		·C

ATOM	8414	CE3	TRP	С	252		38 000	115.195	96 993	1 00			
ATOM	8416		TRP						86.293		26.34		С
ATOM	8418							113.825	86.201		26.27		С
			TRP					113.167	84.962	1.00	26.42		С
ATOM	8420	CZ2			252		38.114	113.851	83.803		26.19		Č
MOTA	8422	С	TRP	С	252		41.055	118.218	85.919		26.10		
ATOM	8423	0			252	•		118.760	84.825				C
ATOM	8424	N			264						25.72		0
ATOM								110.592	85.368		20.90		N
	8426	CA			264		44.717	109.405	85.998	1.00	20.95		С
ATOM	8428	CB			264		45.561	108.170	85.664	1.00	21.07		Ċ
ATOM	8431	CG	ARG	С	264		45.200	107.505	84.337		21.24		č
ATOM	8434	CD			264			106.252	84.458		21.59		
MOTA	8437	NE			264			105.110					С
ATOM	8439	CZ							83.734		21.88		N
					264			104.060	.83.278	1.00	21.84		С
ATOM	8440		ARG				42.878	103.963	83.459	1.00	21.38		N
ATOM	8443	NH2	ARG	С	264		44.837	103.089	82.630		21.63		N
ATOM	8446	С	ARG	С	264		44.615	109.579	87.513		20.92		
MOTA	8447	0			264			109.401					С
ATOM	8448	Ň			265				88.095		20.89		0
								109.931	88.142		20.82		N
ATOM	8450	CA			265			110.075	89.601	1.00	20.79		C
MOTA	8452	CB			265		47.218	109.772	90.117	1.00	20.82		C
MOTA	8455	CG	GLN	С	265		47.861	108.481	89.567		20.84		c
ATOM	8458	CD			265			107.288	90.497	1 00	20.48		
ATOM	8459		GLN					107.105	01 114				C
ATOM	8460		GLN						91.114		19.44		0
ATOM								106.474	90.597		19.51		N
	8463	C			265			111.476	90.055	1.00	20.74		С
ATOM	8464	0	GLN	С	265		44.912	111.650	91.183		20.71		Ō
MOTA	8465	N	GLN	С	266		45.537	112.465	89.174		20.57		N
ATOM	8467	CA	GLN	С	266		45.069	113.830	89.426				
ATOM	8469	СВ			266		15 622	114.792			20.43		С
ATOM	8472	CG					43.022	114.792	88.371		20.43		С
					266	-	4/.155	114.861	88.305		20.22		С
ATOM	8475	CD			266			115.901	87.323	1.00	19.98		С
MOTA	8476		GLN				48.641	115.671	86.617		20.15		ŏ
ATOM	8477	NE2	GLN	С	266			117.048	87.277		19.72		
ATOM	8480	С			266		43 545	113.891					N
ATOM	8481	ŏ			266		40.034	114 711	89.401		20.42		C
ATOM								114.711	90.089		20.27		0
	8482	N ~-			267			113.027	88.580		20.42		N
MOTA	8484	CA			267			112.910	88.461	1.00	20.37		С
ATOM	8486	CB			267		41.107	112.392	87.071		20.42		C
ATOM	8489	CG	ARG	С	267			113.274	85.908		20.99		č
MOTA	8492	CD			267			112.641	85.035				~
ATOM	8495	NE			267			113.349			20.90		С
ATOM	8497	CZ			267		42.093	113.349	83.768		20.87		N
							42.056	113.328	82.731	1.00	20.65		С
ATOM	8498		ARG					112.640	82.774	1.00	20.84		N
ATOM	8501		ARG					114.011	81.637	1.00	20.00		N
ATOM	8504	С	ARG	С	267			111.982	89.533		20.31		
ATOM	8505	0	ARG	С	267		39.763	112.091	89.896				C
MOTA	8506	N			268		11 772	111.075			20.33		0
MOTA	8508	CA	PHE				41 300	110 000	90.040		20.11		N
							41.390	110.250	91.182	1.00	19.98		С
	8510	CB			268		42.315	109.039	91.341	1.00	20.00		C
MOTA	8513	CG			268		41.736	107.952	92.207		20.22		Č
ATOM	8514	CD1	PHE	С	268		40.581	107.276	91.816		20.27		č
ATOM	8516		PHE					106.277	92.615				Č
ATOM	8518	CZ	PHE	č	268		40.635	105.277			20.27		С
ATOM	8520		PHE	Č	260		41 70-	105.946	93.824		20.50		С
								106.612	94.227		20.51		С
ATOM	8522		PHE				42.333	107.611	93.421	1.00	20.26		С
ATOM	8524	С			268		41.381	111.091	92.461		19.85		Č
MOTA	8525	0	PHE	С	268		40.639	110.801	93.387		19.72		ŏ
ATOM	8526	N			269		42,207	112.133	92.500		19.78		
MOTA	8528	CA			269			113.105					N
ATOM	8530	CB			269				93.589		19.64		С
								113.990	93.541	1.00	19.62	•	С
ATOM	8534	_ <u>C</u>	АЦА	<u>C</u>	269		40.921	113.957	93.475	1.00	19.48		С

ATOM	8535	Ο.	ALA	C 269	40.405 114:459 94	1.471 1.00 1	0 20
ATOM	8536	N		C 270			
ATOM	8538	.CA		C 270			
ATOM	8540	CB		C 270			9.12
ATOM	8543	CG		C 270			9.16
ATOM	8544			C 270			9.71
ATOM	8546	CE1		C 270			0.24
ATOM	8548			C 270			0.68
ATOM	8550	CD2				.541 1.00 2	0.51
ATOM	8552			C 270		0.509 1.00 1	9.93
ATOM		C		C 270			8.88
	8553	0		C 270			8.65
ATOM	8554	N		C 271	37.835 112.896 91	803 1.00 1	8.69
ATOM	8556	CA		C 271		2.044 1.00 1	8.42
ATOM	8558	CB		C 271		226 1.00 1	8.48
ATOM	8561	CG		C 271		0.872 1.00 1	8.10
ATOM	8562	CD1		C 271	36.888 110.860 88		7.95
ATOM	8564	CE1		C 271			8.02
ATOM	8566	CZ		C 271	34.914 110.887 87		8.02
ATOM	8568	CE2		C 271	34.135 110.813 88		7.76
ATOM	8570	CD2		C 271			7.92
ATOM .	8572	С		C 271	36.523 111.669 93		8.29
MOTA	8573	0		C 271			8.03
ATOM	8574	. N	THR				8.33
ATOM	8576	CA		C 272			8.31
MOTA	8578	CB		C 272		_ · · · · · · · · · · · · · · · · · · ·	8.17
ATOM	8580	OG1	THR				8.89
ATOM	8582	CG2	THR	C 272			8.00
ATOM	8586	С	THR	C 272	<b>* -</b> · · · ·		8.28
ATOM	8587	0	THR	C 272			8.32
ATOM	8588	N	GLU	C 27·3			8.25
MOTA	8590	CA		C 273			8.23
ATOM	8592	CB	GLU	C 273			8.38
ATOM	8595	CG	GLU				8.56
ATOM	8598	CD	GLU				0.02
MOTA	8599	OE1	GLU				8.94
ATOM	8600	OE2		C 273			1.08
ATOM	8601	С	GLU				
ATOM	8602	0	GLU	C 273			8.09 8.05
ATOM	8603	N		C 274	_		7.89
ATOM	8605	CA	LEU (				-
MOTA	8607	CB		C 274			7.64
MOTA	8610	CG	LEU				7.55
MOTA	8612	CD1					7.32
ATOM	8616		LEU				7.35
MOTA	8620	С		C 274		.293 1.00 1	6.94
ATOM	8621	0		C 274		704 1.00 1	
ATOM	8622	N		275		.481 1.00 1	
ATOM .	8624	CA		275		.266 1.00 1	7.44
ATOM	8626	СВ		275		.010 1.00 1	7.50
ATOM	8630	C		275.			7.41
ATOM	8631	Ō	ALA	275			
ATOM	8632	N	ILE (	276		.476 1.00 1	
ATOM .	8634	CA		276	34.086 112.489 99	.226 1.00 1	
ATOM	8636	CB		276			
ATOM	8638		ILE (	276		.918 1.00 18	
ATOM	8641	CD1	ILE (	276	37.972 112.880 100	.870 1.00 1	
ATOM	8645		ILE (	276			
ATOM	8649	C		276		.279 1.00 18	
ATOM	8650	ŏ		276		.849 1.00 18	8.55 0.10
ATOM	8651	N		277	00 -00	.940 1.00 19	
ATOM	8653	CA	ILE (	277	0.4 - 0.4	.842 1.00 18	
			'	- 411	21.72 113.332 99	.930 1.00 18	<b>8.94</b>
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ATOM	8655	СВ	ILE	C	277	31.920 116.946 98.719 1.00 1	3.90 C
ATOM	8657	CG1			277	33.142 117.847 98.880 1.00 1	
MOTA	8660		ILE			33.605 118.494 97.580 1.00 1	
ATOM	8664		ILE			30.675 117.811 98.572 1.00 1	
ATOM	8668	C	ILE			30.386 115.414 99.994 1.00 1	
ATOM	8669	ŏ	ILE			29.513 115.930 100.698 1.00 1	
ATOM	8670	N	SER			30.188 114.337 99.237 1.00 1	
ATOM	8672	CA	SER			28.929 113.597 99.207 1.00 1	
ATOM	8674	CB	SER			28.970 112.576 98.068 1.00 1	
ATOM	8677	OG	SER			27.859 111.716 98.118 1.00 1	
ATOM	8679	C	SER			28.641 112.907 100.549 1.00 1	
ATOM	8680	ŏ	SER			27.498 112.856 100.984 1.00 1	
ATOM	8681	N	VAL			29.680 112.393 101.203 1.00 1	
ATOM	8683	CA	VAL			29.542 111.791 102.536 1.00 2	
ATOM	8685	CB	VAL			30.831 111.079 102.953 1.00 2	
ATOM	8687		VAL			30.789 110.670 104.441 1.00 1	
ATOM	8691		VAL			31.057 109.867 102.058 1.00 2	0.17 C
ATOM	8695	C	VAL			29.151 112.822 103.614 1.00 2	
ATOM	8696	ŏ	VAL			28.395 112.498 104.535 1.00 2	0.11 0
ATOM	8697	N			280	29.670 114.047 103.491 1.00 2	
ATOM	8699	CA			280	29.314 115.138 104.396 1.00 2	
ATOM	8701	CB			280	30.201 116.365 104.155 1.00 2	
ATOM	8704	CG			280	31.480 116.379 104.999 1.00 2	
ATOM	8707	CD			280	32.584 117.276 104.430 1.00 2	
ATOM	8708		GLN			32.675 117.479 103.215 1.00 2	
ATOM	8709		GLN			33.426 117.803 105.310 1.00 2	
ATOM	8712	С			280	27.840 115.506 104.233 1.00 2	
ATOM	8713	0			280	27.099 115.550 105.215 1.00 2	
ATOM	8714	N			281	27.417 115.745 102.991 1.00 2	
MOTA	8716	CA			281	26.015 116.037 102.670 1.00 2	
ATOM	8718	CB			281	25.820 116.136 101.165 1.00 2	0.94 C
MOTA	8721	CG	GLU	С	281	26.267 117.446 100.558 1.00 2	2.11 C
ATOM	8724	CD			281	26.179 117.440 99.041 1.00 2	
ATOM	8725	OE1	GLU	С	281	25.462 116.585 98.477 1.00 2	
MOTA	8726	OE2			281	26.852 118.288 98.409 1.00 2	
MOTA	8727	С			281	25.072 114.962 103.176 1.00 2	
MOTA	8728	0			281	24.012 115.273 103.703 1.00 2	
MOTA	8729	N			282	25.456 113.703 103.003 1.00 2	
MOTA	8731	CA			282	24.625 112.581 103.424 1.00 2	
ATOM	8733	CB			282	25.168 111.241 102.838 1.00 1	.9.67 C
MOTA	8735		ILE			24.892 111.181 101.326 1.00 2	0.08 C
MOTA	8738				282	25.763 110.181 100.558 1.00 1	
MOTA	8742		ILE			24.530 110.039 103.508 1.00 1	
MOTA	8746	C	ILE	C	282	24.471 112.522 104.958 1.00 2	
ATOM	8747	0			282	23.381 112.236 105.455 1.00 2	
ATOM	8748	N			283	25.538 112.797 105.705 1.00 2	
ATOM	8750	CA			283	25.423 112.833 107.154 1.00 2	20.27 C
ATOM	8752	CB			283	26.806 112.938 107.867 1.00 2	
ATOM	8754				283	26.633 113.169 109.379 1.00 2	
ATOM	8758		VAL			27.647 111.682 107.624 1.00 2	
ATOM	8762	C			283	24.534 114.009 107.556 1.00 2	
ATOM	8763	О М			283	23.676 113.865 108.419 1.00 2	
ATOM	8764 8766	N			284	24.731 115.167 106.930 1.00 2 23.940 116.339 107.276 1.00 2	
ATOM	8766 8768	CA CB			284 284		
ATOM	8768				284		
ATOM	8771	CG OD1			284	25.716 118.093 107.058 1.00 2 26.314 118.964 106.387 1.00 2	
MOTA MOTA	8772 8773				284	26.314 118.964 106.387 1.00 2 26.217 117.690 108.132 1.00 2	
ATOM	8774	C			284	22.473 116.103 106.965 1.00 2	
ATOM	8775	o			284	21.614 116.437 107.772 1.00	
ATOM	8776				285	22.206 115.515 105.803 1.00	
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ATOM	8901	0	PHE C	292	18.168 109.283 114.829 1.00 20.80	0
ATOM	8902	N	LEU C		17.072 111.236 114.842 1.00 20.96	N
ATOM	8904		LEU C		17.651 111.623 116.119 1.00 21.58	Ĉ
			LEU C		17.866 113.149 116.172 1.00 22.24	č
MOTA	8906	CB				c
MOTA	8909	CG	LEU C			
MOTA	8911		LEU C		18.918 115.091 114.766 1.00 26.29	C
MOTA	8915		LEU C		20.399 113.299 115.679 1.00 25.36	C
MOTA	8919	С	LEU C		16.890 111.047 117.328 1.00 21.07	C
ATOM	8920	0	LEU C		17.216 111.353 118.436 1.00 20.52	0
MOTA	8921	N	GLN C		15.916 110.165 117.076 1.00 21.25	N
MOTA	8923	CA	GLN C		15.207 109.392 118.107 1.00 21.11	С
MOTA	8925	CB	GLN C	294	13.787 108.996 117.617 1.00 20.66	С
ATOM.	8928	CG	GLN C	294	12.756 110.142 117.485 1.00 20.76	С
MOTA	8931	CD	GLN C	294	11.395 109.673 116.957 1.00 20.07	С
ATOM	8932	OE1	GLN C	294	10.885 108.635 117.368 1.00 22.27	0
ATOM	8933	NE2	GLN C		10.819 110.435 116.044 1.00 21.53	N
ATOM	8936	C	GLN C		15.995 108.108 118.460 1.00 21.18	С
ATOM	8937	ŏ	GLN C		15.890 107.565 119.573 1.00 21.79	0
ATOM	8938	N	LEU C		16.762 107.618 117.489 1.00 20.56	N
ATOM	8940	CA	LEU C		17.617 106.457 117.676 1.00 19.97	C
	8942	CB	LEU C		18.184 106.000 116.331 1.00 19.84	Č.
MOTA			LEU C		17.120 105.608 115.308 1.00 21.51	Č
ATOM	8945	CG			17.677 105.567 113.880 1.00 21.63	Č
MOTA	8947		LEU C		16.508 104.280 115.724 1.00 22.38	Č
MOTA	8951		LEU C			c
MOTA	8955	C	LEU C			
ATOM	8956	0	LEU C		19.174 107.979 118.657 1.00 18.87	0
ATOM	8957	N	GLY C		19.334 105.794 119.222 1.00 18.24	N
MOTA	8959	CA	GLY (		20.553 105.924 119.992 1.00 17.51	C
ATOM	8962	С	GLY (		21.708 106.223 119.064 1.00 17.28	C ·
MOTA	8963	0	GLY (		21.676 105.904 117.864 1.00 16.50	0
MOTA	8964	N	ARG (	297	22.722 106.867 119.610 1.00 17.04	N
MOTA	8966	CA	ARG (	297	23.866 107.274 118.814 1.00 17.85	С
MOTA	8968	СВ	ARG (	297	24.914 107.939 119.702 1.00 18.51	С
MOTA	8971	CG	ARG (	297	25.970 108.701 118.932 1.00 21.03	С
ATOM	8974	CD	ARG (	297	26.565 109.885 119.697 1.00 24.13	С
ATOM	8977	NE	ARG (	297	27.446 110.642 118.814 1.00 26.89	N
ATOM	8979	CZ	ARG (		28.688 110.280 118.488 1.00 28.95	C
ATOM	8980		ARG		29.245 109.170 118.989 1.00 28.90	N
ATOM	8983		ARG		29.386 111.044 117.654 1.00 30.13	N
ATOM	8986	C		297	24.500 106.110 118.072 1.00 17.21	С
ATOM	8987	ŏ		297	24.996 106.292 116.970 1.00 17.19	0
ATOM	8988	N		298	24.485 104.927 118.684 1.00 17.07	N
ATOM	8990	CA	GLU		25.127 103.732 118.118 1.00 17.04	С
MOTA	8992	CB		298	25.210 102.597 119.172 1.00 17.47	С
ATOM	8995	CG		C 298	26.611 102.225 119.675 1.00 20.19	С
	8998	CD	GLU	C 298	26.928 102.699 121.098 1.00 24.27	Ċ
MOTA	8999		L GLU		27.441 101.898 121.941 1.00 26.54	ŏ
MOTA	9000		GLU		26.710 103.894 121.377 1.00 26.08	Ö
MOTA				C 298	24.375 103.269 116.857 1.00 16.16	č
ATOM	9001	C			24.988 102.930 115.857 1.00 15.40	ŏ
MOTA	9002	0		C 298	23.043 103.275 116.903 1.00 15.81	N
MOTA	9003			C 299		C
ATOM	9005			C 299		
MOTA	9007			C 299	20.776 102.702 116.079 1.00 15.51	C
MOTA	9010			C 299	20.580 101.419 116.853 1.00 17.40	
ATOM	9011		1 ASP		21.597 100.704 117.109 1.00 17.79	0
ATOM	9012		2 ASP		19.440 101.049 117.244 1.00 18.34	0
ATOM	9013			C 299	22.323 104.014 114.631 1.00 14.43	C
ATOM	9014	0		C 299	22.216 103.687 113.475 1.00 14.52	0
MOTA	9015	N		C 300	22.528 105.270 115.010 1.00 13.51	N
MOTA	9017	CA		C 300	22.701 106.360 114.061 1.00 13.20	C
MOTA	9019			C 300	22.832 107.720 114.787 1.00 13.53	С

ATOM	9022	CG	GT.N	C 300	21 470	100 370	115 4.5	
ATOM	9025	CD	GLN		21.478 21.589		115.142 115.924	1.00 14.58
ATOM	9026	OE1	GLN	C 300	22.618	110.348	115.897	1.00 16.44 1.00 18.72
ATOM	9027	NE2		C 300	20.521	110.036	116.625	1.00 18.19
ATOM ATOM	9030 9031	С	GLN		23.941	106.081	113.219	1.00 12.90
ATOM	9031	O N	GLN ILE	C 300 C 301	23.890	106.120	111.982	1.00 12.11
ATOM	9034	CA	ILE		25.042 26.318		113.907	1.00 12.62
ATOM	9036	СВ	ILE		27.455		113.264 114.313	1.00 12.44
ATOM	9038	CG1		C 301	27.860		114.830	1.00 12.75 1.00 13.07
ATOM	9041	CD1		C 301	28.710	106.675	116.118	1.00 13.04
ATOM ATOM	9045 9049	CG2 C		C 301	28.698	104.619	113.728	1.00 12.96
ATOM	9050	o	ILE ILE	C 301 C 301	26.210 26.632	104.240	112.389	1.00 12.02
ATOM	9051	N	ALA		25.607		111.247 112.897	1.00 12.15
MOTA	9053	CA	ALA			101.932	112.09/	1.00 11.82 1.00 12.16
MOTA	9055	CB		C 302	24.883	100.831	113.008	1.00 12.16
ATOM	9059	C	ALA		24.542	102.103	110.887	1.00 12.54
ATOM ATOM	9060 9061	0	ALA		24.791	101.527	109.835	1.00 12.70
ATOM	9063	N CA	LEU (	C 303 C 303	23.498 22.589	102.896	111.009	1.00 13.13
ATOM	9065	CB	LEU		21.304	103.099	109.891 110.334	1.00 13.77
MOTA	9068	CG	LEU		20.322	102.935	111.135	1.00 14.12 1.00 15.21
ATOM	9070	CD1	LEU (		19.016	103.660	111.413	1.00 13.21
ATOM ATOM	9074	CD2	LEU		20.057	101.608	110.416	1.00 15.95
ATOM	9078 9079	C	LEU (		23.306	103.860	108.794	1.00 13.54
ATOM	9080	N	LEU		23.239 24 036		107.649 109.171	1.00 12.29
MOTA	9082	CA	LEU		24.788	105.725	109.171	1.00 14.20 1.00 15.18
ATOM	9084	CB	LEU (	304	25.385		108.907	1.00 15.16
ATOM	9087	CG	LEU (			108.164	109.057	1.00 15.79
ATOM ATOM	9089 9093	CD1				109.220	109.808	1.00 17.72
ATOM	9093	CD2	LEU (		23.994 25.913		107.718	1.00 15.50
ATOM	9098	õ	LEU (			104.983 105.161	107.527 106.347	1.00 15.76
ATOM	9099	N	LYS (		26.631		108.276	1.00 16.32 1.00 16.60
MOTA	9101	CA	LYS (		27.737	103.358	107.751	1.00 16.00
ATOM ATOM	9103	CB	LYS	_	28.447	102.638	108.909	1.00 16.84
ATOM	9106 9109	CG CD	LYS (		29.930		108.702	1.00 17.61
ATOM	9112	CE	LYS (		30.525	101.476 100.146	109.823	1.00 17.48
ATOM	9115	NZ	LYS	_	31.784	99.317	110.254	1.00 18.13 1.00 17.66
ATOM	9119	С	LYS (		27.267	102.343	106.691	1.00 17.00
ATOM	9120	0	LYS		27.893	102.188	105.641	1.00 17.91
ATOM ATOM	9121 9123	N CA		306	26.163	101.659	106.952	1.00 17.29
ATOM	9125	CB		306	25.659 24.718	100.665 99.703	106.005	1.00 17.55
ATOM	9129	C		306			106.705 104.820	1.00 17.28 1.00 17.94
MOTA	9130	0	ALA (	306	24.726	100.695	103.794	1.00 17.94
MOTA	9131	N	SER (		24.617	102.595	104.962	1.00 17.58
ATOM ATOM	9133 9135	CA CB	SER O		23.710		104.054	1.00 17.92
ATOM	9138	OG	SER (		22.611	103.921 104.633	104.866	1.00 17.61
ATOM	9140	C	SER (		24.360		104.024 103.183	1.00 20.18 1.00 17.67
ATOM	9141	0	SER (	307	23.809	104.652	103.183	1.00 17.67
ATOM	9142	N	THR (		25.506	104.825	103.618	1.00 17.29
ATOM ATOM	9144 9146	CA	THR (		26.125	105.959	102.965	1.00 17.23
ATOM	9148	CB OG1	THR (		27.434		103.702	1.00 17.35
ATOM	9150	CG2	THR (		28.291	107.106	104.891	1.00 17.54
MOTA	9154	C	THR (		26.372	105.642	101.482	1.00 17.21 1.00 17.56
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ATOM 9156 N ILE C 3099 26,923 104.467 101.198 1.00 17.29 N ATOM 9160 CB ILE C 309 27.255 104.119 99.821 1.00 17.69 N C ATOM 9160 CB ILE C 309 28.162 102.861 99.742 1.00 17.33 C ATOM 9165 CDI ILE C 309 28.721 102.688 99.331 1.00 17.70 C ATOM 9165 CDI ILE C 309 29.720 103.754 97.938 1.00 18.00 C ATOM 9165 CDI ILE C 309 29.720 103.754 97.938 1.00 18.00 C ATOM 9173 C ILE C 309 25.986 103.953 98.987 1.00 17.46 C ATOM 9173 C ILE C 309 25.986 103.953 98.987 1.00 17.49 C ATOM 9173 C ILE C 309 25.986 103.953 98.987 1.00 17.49 N ATOM 9177 CA GLO C 310 24.951 103.376 99.581 1.00 17.94 N ATOM 9177 CA GLO C 310 24.951 103.276 99.581 1.00 17.79 C ATOM 9177 CA GLO C 310 24.951 103.276 99.581 1.00 17.79 C ATOM 9178 C GLO C 310 22.748 102.262 99.693 1.00 18.15 C ATOM 9182 CC GLO C 310 22.748 102.262 99.593 1.00 18.15 C ATOM 9182 CC GLO C 310 22.258 99.903 100.554 1.00 21.85 C ATOM 9188 C G GLO C 310 22.258 99.903 100.554 1.00 21.85 C ATOM 9188 C GLO C 310 22.855 100.97 100.753 1.00 23.35 C ATOM 9188 C GLO C 310 22.855 99.903 100.554 1.00 23.35 C ATOM 9188 C GLO C 310 22.855 99.903 100.554 1.00 23.35 C ATOM 9189 C GLO C 310 22.855 99.903 100.554 1.00 23.35 C ATOM 9198 C GLO C 310 22.855 99.903 100.554 1.00 23.35 C ATOM 9198 C GLO C 310 22.855 99.903 100.554 1.00 23.35 C ATOM 9198 C GLO C 310 22.855 99.903 100.554 1.00 23.35 C ATOM 9198 C GLO C 310 22.855 100.97 100.153 1.00 23.35 C ATOM 9199 C GLO C 310 22.456 107.529 100.453 1.00 15.75 C ATOM 9190 N ILE C 311 22.456 107.529 100.423 1.00 15.75 C ATOM 9190 N ILE C 311 22.456 107.529 100.423 1.00 15.75 C ATOM 9190 N ILE C 311 22.456 107.529 100.423 1.00 15.75 C ATOM 9190 C GLO C C C C C C C C C C C C C C C C C C C	ATOM	9155	0	THR	С	308	;	26.035	106.446	100.611	1.00	17.67		0
ATOM 9158 CA LLE C 309	MOTA	9156	N	ILE	С	309								
ATOM 9160 CB ILE C 309 28.162 102.861 99.742 1.00 17.33 C ATOM 9165 CG ILE C 309 28.721 102.688 99.331 1.00 17.70 C ATOM 9165 CG ILE C 309 29.720 103.754 97.938 1.00 18.00 C ATOM 9170 C ILE C 309 27.410 101.612 100.150 1.00 17.79 C ATOM 9173 C ILE C 309 25.988 103.953 98.987 1.00 18.00 C ATOM 9174 O ILE C 309 25.986 104.360 97.835 1.00 18.04 O ATOM 9175 N GLU C 310 24.951 103.376 99.581 1.00 17.79 C ATOM 9177 CA GLU C 310 23.710 103.120 99.581 1.00 17.79 C ATOM 9177 CA GLU C 310 22.748 102.262 99.693 1.00 17.79 C ATOM 9179 CB GLU C 310 22.748 102.262 99.693 1.00 17.94 N ATOM 9179 CB GLU C 310 22.258 99.903 100.554 1.00 17.79 C ATOM 9185 CD GLU C 310 22.258 99.903 100.554 1.00 21.85 C ATOM 9186 CEI GLU C 310 22.258 100.097 100.753 1.00 23.35 O ATOM 9187 CB2 GLU C 310 22.258 100.097 100.753 1.00 23.35 O ATOM 9187 CB2 GLU C 310 22.258 100.097 100.753 1.00 23.35 O ATOM 9189 C G GLU C 310 22.377 98.978 101.108 1.00 23.35 O ATOM 9189 C G GLU C 310 22.480 104.419 98.471 1.00 17.12 C ATOM 9199 N ILE C 311 23.125 105.404 99.358 1.00 16.96 O ATOM 9190 N ILE C 311 22.456 107.529 100.423 1.00 15.75 C ATOM 9190 N ILE C 311 22.456 107.529 100.423 1.00 15.75 C ATOM 9190 CA ILE C 311 22.456 107.529 100.423 1.00 15.75 C ATOM 9190 CA ILE C 311 22.458 107.259 100.423 1.00 15.75 C ATOM 9203 CG2 ILE C 311 22.458 107.259 100.423 1.00 15.36 C ATOM 9203 CG2 ILE C 311 22.459 107.259 99.03 1.00 16.03 N ATOM 9203 CG2 ILE C 311 22.459 107.259 99.03 1.00 16.03 N ATOM 9203 CG2 ILE C 311 22.459 107.259 99.03 1.00 16.03 N ATOM 9204 CB ILE C 311 22.459 107.259 99.03 1.00 16.03 N ATOM 9205 CG ILE C 311 22.459 107.259 99.358 1.00 16.03 N ATOM 9207 C ILE C 311 22.459 107.499 99.358 1.00 16.03 N ATOM 9208 N MET C 312 22.578 106.728 99.034 1.00 15.75 C ATOM 9209 CD ILE C 311 22.459 107.499 99.358 1.00 16.56 C ATOM 9207 C ILE C 311 22.459 107.259 99.03 1.00 15.36 C ATOM 9208 N MET C 312 22.579 107.499 99.00 1.00 15.75 C ATOM 9207 C ILE C 311 22.459 107.259 99.00 1.00 15.75 C ATOM 9208 C BLU C 313 22.66 108.999 99.40 1.00 15.70 00 16.57 C ATOM 9208 C			CA											
ATOM 9162 CGI LLE C 309 28.721 102.688 98.331 1.00 17.70 C ATOM 9165 CDI LLE C 309 29.720 103.754 97.938 1.00 18.00 C ATOM 9173 C LLE C 309 27.410 101.612 100.150 1.00 17.46 C ATOM 9174 O LLE C 309 25.986 103.953 98.947 1.00 17.79 C ATOM 9175 N GLU C 310 22.595 104.360 97.835 1.00 18.04 O ATOM 9177 CA GLU C 310 24.951 103.376 99.581 1.00 17.79 N ATOM 9177 CA GLU C 310 22.748 102.262 99.693 1.00 17.79 C ATOM 9180 CG GLU C 310 22.748 102.262 99.693 1.00 17.79 C ATOM 9182 CG GLU C 310 22.748 102.262 99.693 1.00 18.01 C ATOM 9185 CD GLU C 310 22.595 99.903 100.554 1.00 18.55 C ATOM 9186 CG GLU C 310 22.595 99.903 100.554 1.00 18.65 C ATOM 9187 OE2 GLU C 310 22.595 99.903 100.554 1.00 12.42 C ATOM 9188 C GLU C 310 22.595 99.903 100.554 1.00 12.42 C ATOM 9189 OE2 CLU C 310 22.877 98.978 101.108 1.00 23.35 O ATOM 9189 C GLU C 310 22.877 98.978 101.108 1.00 23.35 O ATOM 9189 O GLU C 310 22.456 104.525 99.93 10.10 10.71.12 C ATOM 9190 N LLE C 311 22.578 106.728 99.938 1.00 16.43 N ATOM 9190 CG LLE C 311 22.578 106.728 99.938 1.00 16.43 N ATOM 9190 CG LLE C 311 22.578 106.728 99.903 1.00 15.35 C ATOM 9190 CG LLE C 311 22.578 106.728 99.904 1.00 15.75 C ATOM 9190 CG LLE C 311 22.578 106.728 99.904 1.00 15.75 C ATOM 9190 CG LLE C 311 22.456 107.529 102.769 1.00 16.60 C ATOM 9207 C LLE C 311 22.456 107.529 102.769 1.00 16.89 C ATOM 9207 C LLE C 311 22.456 107.529 102.769 1.00 16.80 C ATOM 9208 O LLE C 311 22.456 107.529 102.769 1.00 16.80 C ATOM 9209 N MET C 312 24.699 107.229 97.985 1.00 15.16 C ATOM 9209 N MET C 312 24.699 107.229 97.985 1.00 15.10 C 1.00 16.80 C ATOM 9210 GB MET C 312 24.699 107.229 97.985 1.00 15.30 C ATOM 9210 GB MET C 312 27.766 108.909 97.303 1.00 14.74 O ATOM 9210 CB MET C 312 27.766 108.909 97.303 1.00 14.70 C ATOM 9210 CB MET C 312 27.766 108.909 97.303 1.00 17.77 C ATOM 9210 CB MET C 312 27.766 108.909 97.905 1.00 16.80 O ATOM 9210 CB MET C 312 27.766 108.909 97.909 1.00 15.50 C ATOM 9210 CB MET C 312 27.766 108.909 97.909 1.00 16.80 O ATOM 9210 CB MET C 312 25.000 108.709 97.905 1.00 16.80 O ATO								28.162	102.861	99.742			-	
ATOM 9165 CD1 ILE C 309										98.331	1.00	17.70		
ATOM 9169 CG2 ILE C 3099 25.988 103.983 98.987 1.00 17.46 C ATOM 9173 C ILE C 3099 25.980 103.983 98.987 1.00 17.79 C ATOM 9175 N GLU C 310 24.951 103.376 99.581 1.00 17.79 C ATOM 9175 N GLU C 310 24.951 103.376 99.581 1.00 17.79 C ATOM 9177 CA GLU C 310 22.748 102.262 99.693 1.00 18.15 C ATOM 9180 CG GLU C 310 22.748 102.262 99.693 1.00 18.15 C ATOM 9182 CG GLU C 310 22.748 102.262 99.693 1.00 18.15 C ATOM 9185 CD GLU C 310 22.258 99.903 100.554 1.00 21.85 C ATOM 9186 OE1 GLU C 310 22.258 99.903 100.554 1.00 23.35 O ATOM 9186 OE1 GLU C 310 22.258 99.903 100.554 1.00 23.355 O ATOM 9186 C GLU C 310 22.877 98.978 101.108 1.00 23.355 O ATOM 9189 O GLU C 310 22.807 100.097 100.753 1.00 23.355 O ATOM 9189 O GLU C 310 22.408 104.419 98.471 1.00 17.12 C ATOM 9180 C GLU C 310 22.408 104.419 98.471 1.00 17.12 C ATOM 9190 O GLU C 311 22.578 106.728 99.094 1.00 15.75 C ATOM 9190 CG ILE C 311 22.578 106.728 99.094 1.00 15.75 C ATOM 9190 CG ILE C 311 22.578 106.728 99.094 1.00 15.75 C ATOM 9190 CG ILE C 311 22.578 106.728 99.094 1.00 15.75 C ATOM 9190 CG ILE C 311 22.456 107.529 100.423 1.00 15.35 C ATOM 9190 CG ILE C 311 22.456 107.529 100.2769 1.00 16.89 C ATOM 9190 CG ILE C 311 22.456 107.529 100.2769 1.00 16.89 C ATOM 9203 CG2 ILE C 311 22.456 107.929 97.985 1.00 15.36 C ATOM 9203 CG2 ILE C 311 22.4699 107.929 97.985 1.00 15.30 N ATOM 9207 C ILE C 311 22.859 100.299 97.303 1.00 14.74 C ATOM 9208 O ILE C 311 22.859 100.999 97.303 1.00 14.74 C ATOM 9208 O ILE C 311 22.859 100.999 97.303 1.00 14.74 C ATOM 9208 O ILE C 311 22.859 100.999 97.303 1.00 14.74 C ATOM 9208 O ILE C 311 22.859 100.999 97.303 1.00 14.74 C ATOM 9208 O ILE C 311 22.859 100.999 97.303 1.00 15.30 N ATOM 9209 N MET C 312 22.600 100.997 97.985 1.00 15.30 N ATOM 9208 O ILE C 311 22.859 100.999 97.303 1.00 14.74 C ATOM 9210 C MET C 312 25.600 100.997 97.851 1.00 15.30 C ATOM 9210 C MET C 312 25.000 100.999 97.304 1.00 15.30 C ATOM 9210 C MET C 312 25.000 100.999 97.305 1.00 15.30 C ATOM 9220 C MET C 312 25.000 100.999 97.307 1.00 15.50 C ATOM 9220 C MET C 3														
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ATOM 9211 CA MET C 312 25.610 107.877 97.031 1.00 15.36 C ATOM 9213 CB MET C 312 27.768 108.490 98.286 1.00 16.56 C ATOM 9219 SD MET C 312 29.474 107.991 98.640 1.00 20.13 S ATOM 9220 CE MET C 312 29.474 107.991 98.640 1.00 17.77 C ATOM 9224 C MET C 312 25.278 107.471 95.596 1.00 14.87 C ATOM 9225 O MET C 312 25.300 108.307 94.702 1.00 14.87 C ATOM 9226 N LEU C 313 24.952 106.193 95.419 1.00 14.90 N ATOM 9228 CA LEU C 313 24.505 105.629 94.154 1.00 15.60 C ATOM 9230 CB LEU C 313 24.505 105.629 94.154 1.00 15.52 C ATOM 9233 CG LEU C 313 25.806 101.985 94.642 1.00 17.07 C ATOM 9233 CD LEU C 313 25.806 101.985 94.642 1.00 17.07 C ATOM 9233 CD LEU C 313 25.806 101.985 94.642 1.00 17.07 C ATOM 9234 C LEU C 313 26.747 103.716 93.058 1.00 16.98 C ATOM 9243 C LEU C 313 22.864 106.313 92.550 1.00 16.98 C ATOM 9245 N LEU C 314 22.864 106.313 92.550 1.00 16.94 N ATOM 9245 N LEU C 314 22.864 106.325 94.691 1.00 15.79 C ATOM 9247 CA LEU C 314 22.868 106.790 94.405 1.00 15.79 C ATOM 9249 CB LEU C 314 18.631 106.002 95.673 1.00 16.84 C ATOM 9252 CG LEU C 314 18.631 106.002 95.673 1.00 16.14 N ATOM 9249 CB LEU C 314 18.631 106.002 95.673 1.00 18.67 C ATOM 9258 CD LEU C 314 18.454 104.919 94.622 1.00 19.10 C ATOM 9258 CD LEU C 314 18.454 104.919 94.622 1.00 19.10 C ATOM 9258 CD LEU C 314 18.454 104.919 94.622 1.00 19.10 C ATOM 9258 CD LEU C 314 18.454 104.919 94.622 1.00 19.10 C ATOM 9258 CD LEU C 314 18.454 104.919 94.622 1.00 19.10 C ATOM 9258 CD LEU C 314 18.454 104.919 94.622 1.00 19.10 C ATOM 9258 CD LEU C 314 18.454 104.919 94.622 1.00 19.10 C ATOM 9258 CD LEU C 314 18.454 104.919 94.622 1.00 19.10 C ATOM 9258 CD LEU C 314 18.454 104.919 94.622 1.00 19.10 C ATOM 9258 CD LEU C 314 18.454 104.919 94.622 1.00 19.21 C ATOM 9258 CD LEU C 314 18.413 105.431 97.060 1.00 18.21 C ATOM 9268 CB GLU C 315 22.813 111.098 95.425 1.00 18.67 C ATOM 9268 CB GLU C 315 22.813 111.098 95.425 1.00 18.67 C ATOM 9268 CB GLU C 315 22.813 110.988 95.425 1.00 19.21 C ATOM 9275 OE1 GLU C 315 22.813 110.988 95.425 1.00 18.60 O ATOM 9277 C GLU C 315								24.699	107.229	97.985	1.00	15.30		
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ATOM 9220 CE MET C 312 30.310 108.784 97.288 1.00 17.77 C ATOM 9224 C MET C 312 25.278 107.471 95.596 1.00 14.87 C ATOM 9225 O MET C 312 25.300 108.307 94.702 1.00 14.87 C ATOM 9226 N LEU C 313 24.952 106.193 95.419 1.00 14.90 N ATOM 9228 CA LEU C 313 24.505 105.629 94.154 1.00 15.60 C ATOM 9230 CB LEU C 313 24.507 104.098 94.240 1.00 15.52 C ATOM 9233 CG LEU C 313 25.902 103.473 94.345 1.00 17.07 C ATOM 9235 CD1 LEU C 313 25.806 101.985 94.642 1.00 17.63 C ATOM 9237 CD2 LEU C 313 25.806 101.985 94.642 1.00 15.79 C ATOM 9244 C LEU C 313 23.114 106.109 93.734 1.00 15.79 C ATOM 9245 N LEU C 314 22.864 106.313 92.550 1.00 15.46 O ATOM 9247 CA LEU C 314 22.868 106.790 94.405 1.00 16.14 N ATOM 9247 CA LEU C 314 19.988 106.744 95.646 1.00 17.11 C ATOM 9249 CB LEU C 314 18.631 106.002 95.673 1.00 18.67 C ATOM 9258 CD2 LEU C 314 18.454 104.919 94.622 1.00 19.10 C ATOM 9258 CD2 LEU C 314 18.454 104.919 94.622 1.00 19.10 C ATOM 9264 N GLU C 314 18.431 105.431 97.060 1.00 18.21 C ATOM 9266 CA GLU C 314 21.008 108.233 93.930 1.00 17.27 C ATOM 9266 CA GLU C 315 22.054 110.384 94.302 1.00 18.07 N ATOM 9267 CD LEU C 314 21.008 108.233 93.930 1.00 17.27 C ATOM 9268 CD GLU C 315 22.054 110.384 94.625 1.00 19.21 C ATOM 9267 CD GLU C 315 22.054 110.384 94.625 1.00 19.21 C ATOM 9267 CD GLU C 315 22.054 110.384 94.625 1.00 19.21 C ATOM 9267 CD GLU C 315 22.054 110.384 94.625 1.00 19.21 C ATOM 9267 CD GLU C 315 22.054 110.384 94.625 1.00 19.21 C ATOM 9277 CG GLU C 315 22.054 110.384 94.625 1.00 19.21 C ATOM 9276 OE2 GLU C 315 22.054 110.384 94.625 1.00 19.21 C ATOM 9277 CG GLU C 315 22.054 110.384 94.625 1.00 19.21 C ATOM 9277 CG GLU C 315 22.054 110.384 94.625 1.00 19.21 C ATOM 9277 C GGLU C 315 22.054 110.384 94.625 1.00 19.21 C ATOM 9277 C GGLU C 315 22.054 110.384 94.625 1.00 19.21 C ATOM 9277 C GGLU C 315 22.054 110.384 94.625 1.00 18.67 C ATOM 9278 O GLU C 315 22.054 110.384 94.302 1.00 18.54 C ATOM 9277 C GGLU C 315 22.054 110.384 94.302 1.00 18.54 C ATOM 9278 O GLU C 315 22.054 110.359 92.983 1.00 18.54 C ATOM 9278 O GLU C 3											1.00	16.56		С
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24.222 103.432 31.303 1.00 18.13														
		<b></b>								71.303	1.00	10.13		C

ATOM ATOM	9283 9285	CB OG1	THR THR		316 316			108.403 108.631	91.293 92.366		18.21		C
ATOM	9287	CG2		_				108.503	90.056		17.85 17.93		0
ATOM	9291	C	THR					109.252	90.182		17.91		C
ATOM	9292	Ö	THR		316			109.901	89.151		17.49		C
ATOM	9293	N	ALA					108.334	90.409		18.09		0
ATOM	9295	CA	ALA					.108.043	89.455		18.68		N
ATOM	9297	CB	ALA		317			106.940	89.984		18.51		C ·
ATOM	9301	C	ALA					109.281	89.184		19.16		G.
MOTA	9302	Õ	ALA					109.573	88.041		19.81		0
ATOM	9303	N	ARG		318			109.999	90.259		19.76		N
ATOM	9305	CA	ARG						90.255		20.42		C
ATOM	9307	CB	ARG					111.748	91.700		20.76		Č
ATOM	9310	CG	ARG		318			112.671	91.970		22.67		č
ATOM	9313	CD	ARG					112.996	93.461		25.30		č
ATOM	9316	NE	ARG					114.383	93.585		28.53		N
ATOM	9318	CZ	ARG		318			115.416	93.905		31.39		c `
ATOM	9319	NH1	ARG					115.254	94.208		32.11		N
ATOM	9322	NH2	ARG	С	318				93.944		33.77		N
ATOM	9325	С	ARG	С	318			112.314	89.344		20.16		C.
ATOM .	9326	0	ARG	С	318	:	19.115	113.096	88.762		19.94		Ö
MOTA	9327	N	ARG		319	2	21.196	112.350	89.231		.20.23		N
ATOM	9329	CA	ARG	С	319	2	21.914	113.378	88.481		20.06		C
ATOM	9331	CB			319			113.855	89.296		20.26		C
ATOM	9334	CG	ARG		319			114.309	90.693		20.52		С
MOTA	9337	CD			319			114.217	91.677		21.72		С
ATOM	9340	NE			319			114.904	92.926		22.55	•	N
ATOM	9342	CZ	ARG		319			115.987	93.380		23.92	•	С
ATOM	9343		ARG					116.541	92.715		24.46		N
ATOM	9346		ARG					116.524	94.526	1.00	27.00	•	N.
ATOM	9349	C			319			112.867	87.145	1.00	19.89		С
ATOM	9350	0			319			113.567	86.433		20.03		0
ATOM	9351	N			320 ·			111.642	86.810		19.62		N
MOTA	9353	CA	TYR		320			111.076	85.504		19.68		C
ATOM ATOM	9355 9358	CB			320			109.552	85.567		19.69		С
ATOM	9359	CG	TYR		320			108.864	84.234		19.58		C
ATOM	9361	CE1						108.618 107.980	83.689		19.48		C
ATOM	9363	CZ			320			107.569	82.469		20.36		C
ATOM	9364	OH			320			106.938	81.780		20.53		C.
ATOM	9366	CE2			320			100.936	80.565		21.22		0
ATOM	9368		TYR					107.799	82.310 83.530		20.30		C
ATOM	9370	C			320			111.626	84.498		19.79 19.59		C
ATOM	9371	ŏ			320	3	20.112	111.379	84.597		19.39		C 0
ATOM	9372	N	ASN					112.392	83.545		19.68		N
ATOM	9374	CA	ASN	Ċ	321			112.914	82.467		20.13		C
ATOM	9376	СВ			321			114.318	82.075		20.08		Č
MOTA	9379	CG			321			114.833	80.780		19.57		·C
MOTA	9380	OD1	ASN	С	321			115.125	80.693		19.18		ő
ATOM	9381	ND2	ASN	С	321	2	21.729	114.961	79.773		19.05		N
ATOM	9384	С			321			111.899	81.331		20.57		C
ATOM	9385	0			321			111.673	80.800		20.58		Ō
ATOM .	9386	N			322			111.246	80,988		21.24		N
ATOM	9388	CA			322			110.134	80.036	1.00	22.18		С
ATOM	9390	CB			322			109.134	80.230		22.76		С
ATOM	9393	CG			322			107.859	79.450		24.65		С
MOTA	9394		HIS		322			107.180	79.393		26.22		N
MOTA	9396	CEI	HIS	C	322			106.117	78.619		26.44		С
ATOM	9398	NE2	HIS	C	322	1	18.914	106.083	78.165		26.75		N
ATOM ATOM	9400 9402		HIS					107.163	78.666		25.69		С
AION	2402	С	urs	Ü	322	2	ZU.15/	110.567	78.564	1.00	21.92		C
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ATOM	9403	0	HIS C	2	322	20.459	109.737	77.708	1.00 21.93	0
ATOM	9404	N	GLU (	С	323	19.920	111.848	78.275	1.00 21.88	N
ATOM	9406	CA	GLU (				112.377	76.920	1.00 21.96	Ċ
ATOM	9408	СВ	GLU (		323		113.791	76.792	1.00 22.16	č
ATOM	9411	CG	GLU (				113.911	76.989	1.00 22.94	č
ATOM	9414	CD	GLU (				115.303	77.441	1.00 24.39	č
ATOM	9415		GLU (				115.537	78.673	1.00 25.93	Ö
ATOM	9416		GLU (				116.165	76.564	1.00 24.78	ŏ
MOTA	9417	C	GLU (				112.405	76.530	1.00 21.66	č
MOTA	9418	Ō	GLU (				112.094	75.392	1.00 21.39	ő
ATOM	9419	N	THR				112.771	77.483	1.00 21.55	N
MOTA	9421	CA	THR				112.926	77.222	1.00 21.44	Č
ATOM	9423	CB	THR				114.149	77.996	1.00 21.46	č
ATOM	9425	OG1					114.039	79.395	1.00 21.39	ŏ
ATOM	9427	CG2					115.458	77.562	1.00 21.27	č
ATOM	9431	C	THR				111.676	77.606	1.00 21.34	c
ATOM	9432	ŏ	THR				111.411	77.016	1.00 21.11	õ
ATOM	9433	N	GLU				110.903	78.554	1.00 21.19	N
ATOM	9435	CA	GLU				109.764	79.197	1.00 21.15	Č
ATOM	9437	CB	GLU				108.669	78.158	1.00 21.14	č
ATOM	9440	CG	GLU				108.514	77.053	1.00 20.93	č
ATOM	9443	CD	GLU				107.353	76.119	1.00 20.84	č
ATOM	9444		GLU				107.598	74.945	1.00 20.04	ŏ
ATOM	9445		GLU				106.197	76.549	1.00 21.05	ő
ATOM	9446	C	GLU				110.269	79.970	1.00 21.06	Č
ATOM	9447	ŏ	GLU				109.694	79.857	1.00 21.38	ŏ
MOTA	9448	Ň	CYS				111.351	80.773	1.00 20.97	N
ATOM	9450	CA	CYS				112.032	81.698	1.00 20.62	Č
ATOM	9452	CB	CYS				113.380	81.119	1.00 20.62	č
ATOM	9455	SG	CYS				113.283	79.778	1.00 21.03	S
ATOM	9456	Č	CYS				112.336	83.057	1.00 20.08	c
ATOM	9457	ŏ	CYS				112.744	83.144	1.00 19.85	ő
ATOM	9458	N	ILE		327		112.188	84.104	1.00 19.97	Ŋ
ATOM	9460	CA	ILE				112.495	85.478	1.00 19.57	Ċ
ATOM	9462	CB	ILE				111.441	86.438	1.00 19.77	č
ATOM	9464		ILE		327		110.036	86.107	1.00 19.43	č
ATOM	9467	CD1					108.924	86.561	1.00 18.68	č
ATOM	9471	CG2					111.821	87.922	1.00 19.37	č
ATOM	9475	c	ILE				113.869	85.852		Ċ
ATOM	9476	ŏ	ILE				114.129	85.672	1.00 19.10	Ö
MOTA	9477	N	THR				114.739	86.383	1.00 19.40	N
ATOM	9479	CA	THR				116.023	86.908	1.00 19.52	Ċ
ATOM	9481	CB	THR				117.175	86.477	1.00 19.52	Ċ
MOTA	9483		THR				117.485	85.092	1.00 19.32	Õ
MOTA	9485		THR				118.488	87.177	1.00 19.86	č
MOTA	9489	С	THR				115.954	88.436	1.00 19.67	Ċ
ATOM	9490	0	THR				115.566	89.123	1.00 19.59	Ö
MOTA	9491	N	PHE				116.292	88.950	1.00 19.88	N
ATOM	9493	CA	PHE				116.475	90.379	1.00 19.94	Ċ
ATOM	9495	CB	PHE				115.806	90.819	1.00 19.76	č
MOTA	9498	CG	PHE				114.313	90.717	1.00 18.14	Č
MOTA	9499		PHE				113.649	89.997	1.00 16.96	Č
ATOM	9501		PHE				112.273	89.906	1.00 16.32	č
ATOM	9503	CZ			329		111.547	90.530	1.00 16.17	Ċ
MOTA	9505		PHE				112.194	91.261	1.00 16.95	Č
ATOM	9507		PHE				113.574	91.351	1.00 16.75	č
ATOM	9509	C			329		117.961	90.744	1.00 20.54	Č
ATOM	9510	ō			329		118.823	89.898	1.00 20.45	ŏ
ATOM	9511	N			330		118.237	92.025	1.00 21.19	Й
ATOM	9513	CA			330		119.601	92.551	1.00 21.69	Č
ATOM	9515	СВ			330		120.228	92.474	1.00 21.81	č
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ATOM	9518	CG	LEU	С	330	30.423	119.461	93.203	1.00	22.11			С
MOTA	9520	CD1	LEU	С	330		120.211	93.078		22.18			Č
ATOM	9524		LEU			30.072	119.207	94.672		22.18	•		č
MOTA	9528	С			330		120.444	91.840		21.87		_	č
ATOM	9529	0	LEU		330		120.194	92.023		22.10		•	^
ATOM	9530	N	LYS				121.424	91.044		22.12			N.
ATOM	9532	CA	LYS			26.334	122.295	90.322		22.48			Ċ
ATOM	9534	CB			331		123.749	90.834		22.55			Č
ATOM	9537	CG	LYS			26.826	124.834	89.803		22.78			Ċ.
ATOM	9540	CD	LYS				126.218	90.460		23.07			Č
MOTA	9543	CE	LYS		331	28.382	126.811	90.254		23.08			Č
ATOM	9546	NZ			331		127.396	88.894	1.00	23.45		•	N
ATOM	9550	C				26.541	122.200	88.808	1.00	22.62			O M O O O O O O O O O O O O O O O O O O
ATOM	9551	0	LYS		331		122.128	88.063	1.00	22.83			0
ATOM	9552	N	ASP				122.180	88.366	1.00	22.77			· N
ATOM	9554	CA	ASP				122.276	86.943	1.00	22.91		•	С
ATOM	9556	СВ	ASP		332		123.631	86.668	1.00	22.95	٠.		С
ATOM	9559	CG	ASP				124.690	86.214		23.26			С
ATOM	9560		ASP			26.648	124.671	86.676		25.08			0
ATOM	9561		ASP		332		125.586	85.405		21.44			0
ATOM	9562	C	ASP				121.178	86.409		22.95			С
ATOM ATOM	9563	0	ASP				121.017	85.196		23.16			0
ATOM	9564	N			333		120.441	87.280		23.00			N
ATOM	9566 9568	CA			333		119.471	86.822		22.97			С
ATOM	9571	CB CG			333 333		119.047	87.969		23.05			С
ATOM	9572		PHE	<u></u>	333		120.174	88.566		23.21			С
ATOM	9574		PHE				121.412	87.940		23.89			С
ATOM	9576	CZ			333		122.429	88.504		23.79			С
ATOM	9578		PHE				122.218 120.996	89.701		23.41			С
ATOM	9580	CE2	FUE	~	333		120.996	90.334		23.59			С
ATOM	9582	CDZ	PHE	Č	333		119.981	89.768		23.64			C.
ATOM	9583	Ö	PHE				117.651	86.224		22.95			C
ATOM	9584	N	THR		334		117.876	86.859 85.004		23.10			0
ATOM	9586	CA	THR				116.767	84.263		22.92			N
MOTA	9588	CB	THR				117.321	83.039		22.91			C
ATOM	9590	OG1			334		117.052	83.200		22.95 23.46			C
ATOM	9592		THR				116.617	81.733		23.46			0
ATOM	9596	С	THR				115.738	83.846		22.78			C
ATOM	9597	0	THR				116.093	83.563		22.83			0
MOTA	9598	N	TYR	С	335		114.467	83.798		22.76			N
ATOM	9600	CA	TYR	С	335		113.357	83.552		22.83			Č
ATOM	9602	CB	TYR		335		112.809	84.865		22.65			Č
MOTA	9605	CG	TYR			32.588	113.866	85.718		22.97			Č
ATOM	9606	CD1				31.911	114.398	86.810		23.06			Č
ATOM	9608	CE1	TYR			32.478	115.376	87.594	1.00	23.22			Č
ATOM	9610	CZ	TYR				115.843	87.302		23.50			Ċ
ATOM	9611	ОН	TYR				116.818	88.104	1.00	24.32			Ō
ATOM	9613	CE2					115.344	86.213	1.00	23.60			С
ATOM	9615	CD2	TYR				114.357	85.424		23.11			С
ATOM	9617	C	TYR			30.753	112.217	82.773	1.00	22.97			C
ATOM	9618	0	TYR			29.795	111.596	83.236		22.91			0
ATOM	9619	N	SER	C	336		111.941	81.595		23.13			N
MOTA	9621	CA	SER			30.833	110.847	80.753		23.28			С
ATOM	9623	CB	SER				110.981	79.345		23.02			С
ATOM	9626	OG			336	32.805	111.348	79.429		23.21			0
ATOM ATOM	9628 9629	C			336	31.196	109.478	81.359		23.45			С
ATOM	9630	O N	SER				109.388	82.336		23.19			0
ATOM	9632	N CA	LYS			30.637	108.423	80.760		23.74			N
ATOM ATOM	9634	CB	LYS			31.UZ6	107.034	81.040		23.61			С
111 Ot1	2024	CD	пīЭ	C	331	30.441	106.083	79.979	T.00	23.79			Ċ

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	9637 9640 9643 9646 9650 9651 9652 9654 9656	CG CD CE NZ C O N CA CB CG	LYS LYS LYS LYS ASP ASP ASP	000000000	337 337 337 337 337 338 338 338 338	29.345 28.100 27.208 32.543 33.095 33.195 34.643 35.028	105.144 103.817 102.979 102.758 106.862 106.269 107.376 107.216 107.408 106.254	80.487 79.703 80.036 78.848 81.036 81.966 79.984 79.791 78.310 77.431	1.00 24.13 1.00 24.63 1.00 25.18 1.00 24.94 1.00 23.58 1.00 23.45 1.00 23.46 1.00 23.46 1.00 23.48	CCCNCONCC
MOTA MOTA	9660 9661		ASP ASP	С	338	35.353	105.798 105.740	76.567 77.531	1.00 23.44 1.00 23.90	0
ATOM	9662	C	ASP	С	338	35.490	108.156	80.658	1.00 23.45	c
ATOM	9663	0			338	36.650	107.852	80.933	1.00 23.52	ő
ATOM ATOM	9664 9666	N			339	34.929	109.297	81.064	1.00 23.40	N
ATOM	9668	CA CB			339 339	35.602	110.193	82.014	1.00 23.46	С
ATOM	9671	CG			339	34.784	111.473 112.612	82.260	1.00 23.37	C
ATOM	9672		ASP			36.252	112.652	81.294 80.734	1.00 23.23 1.00 22.17	C
ATOM	9673	OD2	ASP	Č	339	34.322	113.536	81 054	1.00 22.17	0
MOTA	9674	С	ASP	С	339	35.854	109.473	83.350	1.00 23.65	O C
MOTA	9675	0			339	36.789	109.823	84.083	1.00 23.64	Ö
ATOM	9676	N			340	35.010	108.483	83.663	1.00 23.87	N
ATOM	9678	CA			340		107.611	84.826	1.00 24.06	Ĉ
MOTA MOTA	9680 9683	CB	PHE	C	340 340	33.959	106.770	85.115	1.00 24.12	С
ATOM	9684	CG CD1	PHE				107.498 108.569	85.895	1.00 24.96	С
ATOM	9686		PHE		340	32.208	108.569	85.336	1.00 25.77	C
ATOM	9688	CZ	PHE			30.895	108.832	86.043 87.325	1.00 26.02 1.00 26.79	C
MOTA	9690	CE2	PHE	Ċ	340	31.558	107.754	87.898	1.00 26.79	C
ATOM	9692	CD2	PHE	С	340	32.549	107.095	87.184	1.00 25.85	c
MOTA	9694	С			340	36.405	106.676	84.595	1.00 23.95	Č
ATOM	9695	0	PHE				106.540	85.461	1.00 23.70	ŏ
ATOM ATOM	9696	N	HIS		341	36.443	106.031	83.428	1.00 24.03	N
ATOM	9698 9700	CA CB	HIS HIS				105.098	83.113	1.00 24.10	C
ATOM	9703	CG	HIS		341		104.356 103.225	81.795	1.00 23.79	C
ATOM	9704		HIS			38.295	103.225	81.578 82.399	1.00 23.96	C
ATOM	9706		HIS			39.245	101.298	81.982	1.00 23.93 1.00 23.56	N
MOTA	9708	NE2	HIS	С	341		101.837	80.927	1.00 23.39	C N
MOTA	9710		HIS				103.046	80.657	1.00 23.74	C
ATOM	9712	C	HIS				105.781	83.078	1.00 24.20	Č
ATOM	9713	0	HIS			39.891	105.167	83.442	1.00 24.22	0
ATOM ATOM	9714 9716	N CA	ARG ARG			38.917	107.050	82.665	1.00 24.50	N
ATOM	9718	CB	ARG			30 05/	107.816 109.101	82.544	1.00 24.78	C
ATOM	9721	CG	ARG				109.101	81.726 80.211	1.00 24.75	C
ATOM	9724	CD	ARG			39.065	109.885	79.471	1.00 24.30 1.00 23.88	C
MOTA	9727	NE	ARG			39.099	109.706	78.021	1.00 23.45	C N
MOTA	9729	CZ	ARG			38.260	110.288	77.164	1.00 23.05	C
ATOM	9730		ARG			37.302	111.102	77.594	1.00 22.76	N
ATOM	9733		ARG			38.383	110.057	75.862	1.00 23.21	N
ATOM ATOM	9736 9737	C	ARG				108.175	83.910	1.00 25.03	С
ATOM	9737 9738	N O	ARG ALA			41.938	108.496 108.130	84.014	1.00 25.19	0
ATOM	9740	CA	ALA				108.130	84.944	1.00 25.28	И
ATOM	9742	CB	ALA				100.321	86.320 87.120	1.00 25.56 1.00 25.51	C
MOTA	9746	C	ALA			40.747	106.999	86.993	1.00 25.82	C
ATOM	9747	0	ALA	С	343	40.608	106.857	88.212	1.00 26.03	0
ATOM	9748	N	GLY			41.221	106.037	86.201	1.00 26.08	Ŋ
ATOM	9750	CA	GLY	C	344	41.775	104.797	86.716	1.00 26.38	С

ATOM	9753	С	GLY C	344	<i>A</i> (	) 220	103.917	87.507	1 00 1
ATOM	97.54	Ō	GLY C			.222			1.00 26.78
ATOM	9755	Ŋ	LEU C			3.592		88.538	1.00 26.80
ATOM	9757	CA	LEU C			3.594		87.031	1.00 27.25
ATOM	9759	CB	LEU C					87.714	1.00 27.42
ATOM	9762	CG				308		87.978	1.00 27.41
ATOM	9764		LEU C			.328		89.177	1.00 26.98
		CD1				.274		89.030	1.00 26.10
ATOM	9768	CD2			37	1.140	103.971	90.492	1.00 26.81
ATOM	9772	C	LEU C		38	.284	101.657	86.926	1.00 27.76
ATOM	9773	0	TEA C		38	.452	101.599	85.698	1.00 27.59
MOTA	9774	N	·GLN C		37	.837	100.634	87.658	1.00 28.16
ATOM	9776	CA	GLN C		37	.475	99.338	87.079	1.00 28.44
ATOM	9778	CB	GLN C		37	.215	98.310	88.194	1.00 28.43
ATOM	9781	CG	GLN C			.477	97.832		1.00 28.46
ATOM	9784	CD	GLN C	346		.727		88.789	1.00 28.15
ATOM	9785	OE1	GLN C	346		.805	95.913	88.365	1.00 27.00
ATOM	9786	NE2	GLN C	346		.737	95.520	89.162	1.00 27.00
ATOM	9789	С	GLN C	346		.231	99.444	86.191	
ATOM	9790	0	GLN C			.299	100.192	86.515	1.00 28.67 1.00 28.63
ATOM	9791	N	VAL C			.219	98.682	85.092	
ATOM	9793	CA	VAL C			.083	98.646	84.158	· · · —
ATOM	9795	CB	VAL C			.492	98.051		1.00 28.88
ATOM	9797	CG1				.313		82.777	1.00 29.00
ATOM	9801	CG2				670	98.048	81.802	1.00 29.19
ATOM	9805	C	VAL C		30	.877	98.827	82.176	1.00 29.10
ATOM	9806	ŏ	VAL C				97.867	84.727	1.00 28.99
ATOM	9807	N	GLU C			.736	98.129	84.343	1.00 29.22
ATOM	9809	CA	GLU C			.130	96.934	85.651	1.00 28.89
ATOM	9811	CB				.065	96.155	86.308	1.00 28.48
ATOM	9814	CG	GLU C	348		.578	94.767	86.710	1.00 28.54
ATOM	9817.	CD				.222	93.980	85.571	1.00 28.57
ATOM	9818	OE1	GLU C			.728	94.160	85.486	1.00 28.72
ATOM	9819	OE2		348		.268	94.124	84.357	1.00 29.57
ATOM	9820		GLU C	348		.380	94.334	86.539	1.00 28.83
ATOM	9821	C	GLU C		32	.522	96.876	87.539	1.00 28.22
ATOM		0	GLU C	348		.654	96.355	88.247	1.00 27.96
ATOM	9822	N		349		.072	98.061	87.798	1.00 27.96
ATOM	9824	CA	PHE C	349		.557	98.996	88.794	1.00 27.71
ATOM	9826	CB	PHE C	349		.742	99.553	89.609	1.00 27.74
	9829	CG		349		.367	100.516	90.725	1.00 28.59
ATOM ATOM	9830	CD1		349		.140	100.457	91.374	1.00 29.06
ATOM	9832	CE1	PHE C	349		.840	101.349	92.399	1.00 29.59
	9834	CZ	PHE C	349		.769	102.301	92.796	1.00 29.26
ATOM	9836	CE2	PHE C	349		.989	102.363	92.172	1.00 28.66
ATOM	9838	_	PHE C				101.475	91.146	1.00 29.12
ATOM	9840	C		349	31	.744	100.113	88.096	1.00 27.25
ATOM	9841	0		349	30	.771	100.601	88.659	1.00 27.59
ATOM	9842	N		350	32	.122	100.489	86.867	1.00 26.78
ATOM	9844	CA		350			101.562	86.110	1.00 26.20
ATOM	9846	CB	ILE C	350	32	.420	102.239	85.091	1.00 26.26
ATOM	9848	CG1				.592	102.924	85.802	1.00 26.42
ATOM	9851	CD1			34	.836	103.084	84.904	1.00 26.70
MOTA	9855		ILE C	350	31	. 689	103.269	84.207	1.00 26.08
ATOM	9859	С	ILE C		30	.196	101.088	85.354	1.00 25.72
ATOM	9860	0	ILE C				101.832	85.247	1.00 25.62
ATOM	9861	N	ASN C	351		.219	99.875	84.809	1.00 25.82
ATOM	9863	CA	ASN C			.082	99.374	84.035	1.00 25.21
ATOM	9865	CB	ASN C			.422	98.057	83.322	1.00 24.96
ATOM	9868	CG	ASN C	351		.401	98.245	82.153	1.00 24.86
ATOM	9869	OD1	ASN C	351		.457	99.308	81.523	1.00 25.77
ATOM	9870	ND2	ASN C	351		.172	97.198	81.858	1.00 25.78
MOTA	9873	С	ASN C	351		.792	99.233	84.867	
			, _				22.23	04.00/	1.00 24.70

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ATOM	9874	0	ASN	С	351		26.760	99.768	84.466	1.00	24.83		0
MOTA	9875	N	PRO	С	352		27.828	98.551	86.016		24.16		N
MOTA	9876	CA	PRO	С	352		26.598	98.339	86.802		24.18		Ċ
MOTA	9878	CB	PRO	С	352		27.060	97.425	87.953		24.24		Ċ
ATOM	9881	CG	PRO				28.381	96.867	87.501	1.00	24.24		Ċ
ATOM	9884	CD	PRO				28.999	97.944	86.671	1.00	23.97	•	C
MOTA	9887	С	PRO				25.968	99.622	87.364	1.00	24.01		Ċ
ATOM	9888	0	PRO	С	352		24.755	99.639	87.565		23.97		Ō
ATOM	9889	N	ILE				26.781	100.653	87.615		23.70		N
MOTA	9891	CA	ILE					101.938	88.134		23.36		C
ATOM	9893	CB	ILE					102.793	88.656	1.00	23.41		C
MOTA	9895	CG1					28.178	102.106	89.842		23.42		Ċ
MOTA	9898	CD1						102.820	90.337		23.49		C
ATOM	9902	CG2						104.190	89.075	1.00	23.20		С
MOTA	9906	С	ILE				25.537	102.735	87.079	1.00	23.29		Ċ
MOTA	9907	0	ILE		353			103.439	87.401	1.00	22.97		0
ATOM	9908	N	PHE	С	354		25.985	102.660	85.827	1.00	23.02		N
MOTA	9910	CA	PHE					103.334	84.732	1.00	22.96	•	C
ATOM	9912	CB	PHE					103.508	83.517	1.00	23.12	•	С
ATOM	9915	CG	PHE					104.811	83.514	1.00	23.93		С
MOTA	9916		PHE					104.934	84.208	1.00	24.40		С
ATOM	9918		PHE					106.126	84.193	1.00	24.30		С
ATOM	9920	CZ	PHE					107.209	83.491	1.00	24.43		С
MOTA	9922		PHE					107.105	82.786	1.00	24.83		С
MOTA	9924		PHE					105.909	82.801		24.84		С
ATOM	9926	С	PHE					102.575	84.350		22.50		С
MOTA	9927	0	PHE					103.176	83.899		22.50		0
MOTA	9928	N	GLU					101.259	84.533		22.02		N
MOTA	9930	CA	GLU					100.434	84.373		21.74		С
MOTA	9932	СВ	GLU				23.196	98.932	84.395		21.83		С
MOTA	9935	CG	GLU				22.744	98.125	83.179		22.57		С
ATOM	9938	CD	GLU				23.799	97.115	82.705		23.44		С
MOTA	9939		GLU		355	•	23.969	96.928	81.475		22.50		0
MOTA	9940		GLU				24.463	96.502	83.572		24.23		0
ATOM	9941	C	GLU					100.768	85.511		21.11		С
MOTA	9942	0	GLU					100.851	85.307		20.86		0
MOTA	9943	N	PHE					100.975	86.711		20.31		N
ATOM	9945	CA	PHE					101.303	87.837		20.11		C
ATOM ATOM	9947 9950	CB CG	PHE		356			101.311	89.169		19.71		C
ATOM	9951		PHE PHE					101.575 100.614	90.347		20.79		C
ATOM	9953		PHE		356				90.760		21.75		C
ATOM	9955	CZ	PHE					100.844 102.071	91.826 92.490		21.97		C
ATOM	9957		PHE					102.071	92.490		23.12 21.68		C
ATOM	9959		PHE					102.797	91.004		20.58		C
ATOM	9961	C	PHE					102.757	87.573		19.69		
ATOM	9962	ŏ	PHE					102.846	87.643		19.08		С 0
MOTA	9963	N	SER					103.607	87.227		19.64		N
MOTA	9965	CA	SER					104.972	86.894		19.63		C
ATOM	9967	CB	SER					105.755	86.374		19.47		Č
ATOM	9970	OG	SER					106.106	87.417		18.07		ŏ
MOTA	9972	Č	SER					105.020	85.862		19.99		Ċ
MOTA	9973	Ō	SER					105.729	86.049		20.17		ŏ
MOTA	9974	N	ARG					104.253	84.793		20.29		Ŋ
MOTA	9976	CA	ARG					104.344	83.714		21.21		C
ATOM	9978	СВ	ARG					103.971	82.360		21.36		Č
ATOM	9981	CG	ARG					102.525	81.901		23.32		Č
ATOM	9984	CD	ARG					102.292	80.555		24.66		č
MOTA	9987	NE	ARG			•		102.751	80.620		26.32		Ŋ
ATOM	9989	CZ	ARG					101.977	80.935		28.56		Ċ
MOTA	9990	NH1						100.674	81.205		28.88		Ŋ
													- · · · · · · · · · · · · · · · · · · ·

MOTA				C 358	24.38	5 102.515	80.950	1.00 29.	96	2.7
ATOM ATOM		_	ARG ARG	C 358		4 103.566		1.00 21.	24	. N
ATOM		N		C 358 C 359	17.10	1 103.910		1.00 21.	87	. 0
ATOM				C 359	17 12	3 102.525 9 101.770	84.852 85.276		25	N
MOTA		СВ	ALA	C 359	17.52	2 100.456	85.927		64	· C.
ATOM		C		C 359	16.27	9 102.622	86.216		55 35	C
ATOM ATOM		O N		C 359	15.05	6 102.459	86.276	1.00 22.	40	C 0
ATOM		N CA	MET MET	C 360 C 360	16.92	2 103.553	86.923	1.00 22.	66	Ŋ
ATOM		CB	MET	C 360	10.19	7 104.555 7 105.295	87.684	1.00 23.	32	C
ATOM	10015	CG	MET		17.73	1 104.413	88.638 89.741	1.00 23.	88	_ C
ATOM	10018	SD		C 360	16.72	1 104.377	91.213	1.00 24. 1.00 30.		. C
ATOM ATOM	10019 10023	CE		C 360	15.84	6 102.995	90.912	1.00 29.		s C
ATOM	10023	C	MET	C 360 C 360	15.43	2 105.560	86.807	1.00 23.	56	Č
ATOM	10025	N		C 361	14.33	8 105.997 9 105.915	87.188	1.00 23.4	48 _.	
ATOM	10027	CA	ARG		15.28	0 106.879	85.638 84.783	1.00 23.8	31	N
ATOM	10029	CB	ARG	C 361	16.14	8 107.326	83.573	1.00 24.2 1.00 24.3	20 70	Ċ
ATOM ATOM	10032 10035	CG	ARG	C 361	16.18	7 108.860	83.365	1.00 26.9	92	C C
ATOM	10033	CD NE	ARG (	C 361 C 361	16.66	1 109.654	84.627	1.00 30.2	24	č
ATOM	10040	CZ		C 361	15.05.	3 110.989 9 111.706	84.746	1.00 32.0	03	N
ATOM	10041	NH1	ARG (	C 361	16.43	0 111.247	85.873 87.049	1.00 33.9 1.00 34.2	99	С
ATOM ATOM	10044		ARG		15.40	3 112.908	85.822	1.00 34.2	23 S8	N N
ATOM	10047 10048	C O	ARG (	C 361 C 361	13.92	106.338	84.330	1.00 23.8	36	N C
ATOM	10049	N		C 361	12.91	107.069 5 105.071	84.382	1.00 24.3	38	ŏ
MOTA	10051	CA	ARG (		12.69	5 103.071	83.894 83.440	1.00 23.5		N
ATOM	10053	CB	ARG (	362	12.951	102.874	83.279	1.00 23.2 1.00 23.3	22	C
ATOM ATOM	10056	CG	ARG (		13.918	3 102.464	82.151	1.00 23.8		C
ATOM	10059 10062	CD NE	ARG (	C 362 C 362	14.507	101.050	82.314	1.00 24.2	20	c
ATOM	10064	CZ	ARG		15.60 <i>3</i>	3 100.809 100.111	81.370	1.00 25.4	2	И
ATOM	10065	NH1	ARG (	362	16.901		81.628 82.814	1.00 25.1	.1	С
ATOM	10068		ARG C		17.636	99.970	80.671	1.00 24.2 1.00 25.3	:8 :3	N
ATOM ATOM	10071 10072	C O	ARG C		11.561	104.570	84.441	1.00 22.9	7	N C
ATOM	10072	N	LEU C		10.385	104.646	84.081	1.00 22.2	2	ŏ
MOTA	10075	CA	LEU C	363	11.016	104.613	85.715 86.832	1.00 23.4	8	N
ATOM	10077	CB	LEU C	363	11.645	104.253	88.116	1.00 23.4 1.00 23.6		C
ATOM ATOM	10080	CG	LEU C		11.589	102.738	88.298	1.00 24.4		C
ATOM	10082 10086	CD2	LEU C	363	12.171	102.414	89.650	1.00 24.8	_ 5	Ċ
ATOM	10090	C	LEU C		10.165	102.205 106.192	88.181	1.00 24.5		C
ATOM	10091	0	LEU C	363	9.377	106.412	87.027 87.419	1.00 23.0 1.00 23.0	5	C
MOTA	10092	N	GLY C	364	11.410	107.151	86.741	1.00 23.0	บ ว	. O
ATOM ATOM	10094 10097	CA C	GLY C	364	11.008	108.534	86.499	1.00 22.3	5	N C
ATOM	10098	0	GLY C	. 364 ! 364	10.641	109.217	87.783	1.00 21.7	6	č
MOTA	10099	N	LEU C	365	11.455	109.951 108.959	87.864 88.793	1.00 21.2	6	0
ATOM	10101	CA	LEU C	365	11.234	109.519	90.114	1.00 21.5 1.00 21.0	3 T	. N
ATOM ATOM	10103 10106	CB	LEU C	365	12.143	108.865	91.144	1.00 20.6	5 5	C
ATOM	10108	CG CD1	LEU C	365	12.368	107.358	91.122	1.00 21.0	В	č
ATOM	10112	CD2	TEO C	365	13.U44 11 070	107.004 106.571	92.460	1.00 22.0		C
ATOM	10116	С	LEU C	365	11.503	111.016	90.916 90.102	1.00 20.5 1.00 20.7	4	C
MOTA	10117	0	LEU C	365	12.407	111.484	89.409	1.00 20.7		Ċ
ATOM ATOM	10118 10120	N CA	ASP C	366	10.714	111.757	90.871	1.00 20.00	כ	O N
ATOM	10120	CB	ASP C ASP C	366 366	10.991	113.161	91.132	1.00 19.49	5	Ĉ
	<b>-</b>			200	7.03/	113.977	91.126	1.00 19.28	3	. C

ATOM 10126 OD1 ASP C 366 9.092 113.087 93.215 1.00 21.40 O   ATOM 10128 C		10125		ASP C					92.098	1.00			C
ATOM   10128   C		10126							93.215				0
ATOM   10129   O													
ATOM 10130 N ASP C 367 12.015 114.488 92.884 1.00 18.72 N ATOM 10131 CA ASP C 367 12.764 114.758 92.884 1.00 18.72 N ATOM 10131 CA ASP C 367 12.764 114.758 94.191 1.00 18.83 C ATOM 10137 CG ASP C 367 12.764 114.758 94.191 1.00 18.83 C ATOM 10138 OD1 ASP C 367 13.933 116.818 93.184 1.00 20.37 C ATOM 10139 OD2 ASP C 367 14.127 118.034 92.988 1.00 22.97 O ATOM 10130 OD2 ASP C 367 14.127 118.034 92.998 1.00 22.97 O ATOM 10140 C ASP C 367 12.831 113.657 96.236 1.00 17.53 C ATOM 10140 C ASP C 367 12.831 113.657 96.236 1.00 17.53 C ATOM 10141 O ASP C 367 12.831 113.657 96.236 1.00 17.53 C ATOM 10142 N ALA C 368 10.825 114.317 95.499 1.00 16.37 N ATOM 10144 CA ALA C 368 10.825 114.317 95.499 1.00 16.37 N ATOM 10144 CA ALA C 368 10.087 113.797 96.622 1.00 15.56 C ATOM 10150 C ALA C 368 10.087 113.797 96.622 1.00 15.51 C ATOM 10150 C ALA C 368 10.081 112.280 96.767 1.00 15.58 C ATOM 10151 C ALA C 368 10.381 112.280 96.767 1.00 15.58 C ATOM 10154 CA GLU C 369 10.265 111.583 95.628 1.00 15.55 N ATOM 10154 CA GLU C 369 10.265 111.583 95.628 1.00 15.55 N ATOM 10154 CA GLU C 369 10.265 111.583 95.628 1.00 15.85 N ATOM 10159 CG GLU C 369 9.0360 109.624 94.217 1.00 16.61 C ATOM 10159 CG GLU C 369 9.0360 109.624 94.217 1.00 16.06 C ATOM 10160 CD GLU C 369 8.374 109.828 94.055 1.00 17.12 C ATOM 10160 CD GLU C 369 8.374 109.828 94.055 1.00 17.12 C ATOM 10160 CD GLU C 369 8.374 109.828 94.055 1.00 16.33 C ATOM 10160 CD GLU C 369 8.469 110.952 91.956 1.00 16.33 C ATOM 10160 CD GLU C 369 8.469 110.952 91.956 1.00 16.33 C C ATOM 10160 CD GLU C 369 8.469 110.952 91.956 1.00 16.03 C C ATOM 10160 CD GLU C 369 8.469 110.952 91.956 1.00 16.33 C C ATOM 10160 CD GLU C 369 8.469 110.952 91.956 1.00 16.93 C C ATOM 10160 CD GLU C 369 11.744 109.9594 95.836 1.00 16.63 C C ATOM 10160 CD GLU C 369 11.744 109.9594 95.836 1.00 16.63 C C ATOM 10160 CD GLU C 369 8.469 110.952 91.956 1.00 17.12 C C ATOM 10160 CD GLU C 370 11.816 109.959 91.656 1.00 18.655 N ATOM 10160 CD GLU C 370 11.816 109.959 91.656 1.00 18.655 N ATOM 10190 CD GLU C 371 11.816 11.81													
ATOM 10132 CA ASP C 367 12.97 116.278 94.119 1.00 18.83 C ATOM 10134 CB ASP C 367 12.997 116.278 94.260 1.00 19.03 C ATOM 10138 ODI ASP C 367 14.541 115.992 92.456 1.00 12.97 C ATOM 10138 ODI ASP C 367 14.541 115.992 92.456 1.00 22.82 O ATOM 10138 ODI ASP C 367 14.541 115.992 92.456 1.00 22.97 O ATOM 10140 C ASP C 367 12.137 114.198 95.393 1.00 17.53 C ATOM 10141 O ASP C 367 12.137 114.198 95.393 1.00 17.53 C ATOM 10142 N ALA C 368 10.825 114.317 97 96.622 1.00 15.67 N ATOM 10144 CA ALA C 368 10.825 114.317 97 96.622 1.00 15.67 N ATOM 10146 CB ALA C 368 8.605 114.125 96.454 1.00 15.67 C ATOM 10150 C ALA C 368 10.087 113.797 96.452 1.00 15.67 C ATOM 10150 C ALA C 368 10.087 113.797 96.622 1.00 15.67 C ATOM 10150 C ALA C 368 10.581 111.774 97.878 1.00 14.84 O ATOM 10151 O ALA C 368 10.531 111.774 97.878 1.00 14.84 O ATOM 10151 O ALA C 368 10.531 111.774 97.878 1.00 14.84 O ATOM 10151 O ALA C 368 10.531 111.774 97.878 1.00 14.84 O ATOM 10151 O ALA C 369 10.353 110.128 95.561 1.00 15.65 N ATOM 10150 C BUL C 369 10.353 110.128 95.562 1.00 15.85 N ATOM 10150 CG BUL C 369 9.860 109.624 94.217 1.00 16.06 C ATOM 10160 CD BUL C 369 8.374 109.828 94.055 1.00 17.12 C ATOM 10163 OED BUL C 369 8.374 109.828 94.055 1.00 17.12 C ATOM 10160 CD BUL C 369 8.469 110.052 91.656 1.00 18.31 O ATOM 10167 N TYR C 370 12.762 110.314 95.894 1.00 16.69 O ATOM 10167 N TYR C 370 12.762 110.314 95.494 1.00 16.55 N ATOM 10167 CA TYR C 370 15.156 110.805 99.4935 1.00 17.84 C ATOM 10169 CA TYR C 370 15.156 110.805 99.4935 1.00 17.84 C ATOM 10170 CE TYR C 370 15.577 110.198 93.646 1.00 17.84 C ATOM 10180 OH TYR C 370 15.577 110.198 93.646 1.00 17.84 C ATOM 10180 OH TYR C 370 15.579 110.199 91.207 1.00 19.31 C ATOM 10180 OH TYR C 370 15.156 110.805 99.4935 1.00 17.01 9.34 C ATOM 10180 OH TYR C 370 15.156 110.805 99.4935 1.00 17.01 9.34 C ATOM 10180 OH TYR C 370 15.156 110.805 99.4935 1.00 17.01 9.34 C ATOM 10180 OH TYR C 370 15.579 110.199 91.207 1.00 19.31 1.00 17.55 C ATOM 10180 OH TYR C 370 15.579 110.199 91.207 1.00 19.31 1.00 17.55 C ATOM 10													
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	ATOM	10236	IA			, , 10.2						·	

ATOM	10238	CA	ILE (	374	16 471	107 406	5 100.747			
ATOM	10240	СВ		374	17 107	107.496	100.747		14.92	
ATOM	10242	CG1		374.	17 863	108.868	100.509		14.52	
ATOM	10245	CD1			18 179	110.229			13.50	
ATÓM	10249	CG2			18 004	100.225	98.652 101.625		14.08	
ATOM		С	ILE C		16 140	103.237	101.625		15.97	
ATOM	10254	ō	ILE (		16.140	107.247	102.242		15.39	
ATOM	10255	N	ALA		15 120	100.436	102.899		14.33	
ATOM	10257	CA	ALA C		14 701	107.940	102.759		15.76	
ATOM	10259	CB	ALA C		13 520	107.752	104.144	1.00	16.21	
ATOM	10263	c	ALA C		10.029	108.715	104.488	1.00	16.50	
ATOM	10264	ŏ	ALA C		14.501	106.315	104.430	1.00	16.30	
ATOM	10265	N	ILE C		12 602	105.778	105.504		16.83	
ATOM	10267	CA	ILE C		13.003	105.675	103.487	1.00	16.26	
ATOM	10269	СВ	ILE C	376	12.240	104.260	103.641	1.00	16.17	
ATOM	10271	CG1			10 060	103.765	102.483	1.00	15.65	
ATOM	10274	CD1			10.962	104.324	102.577	1.00	14.92	
ATOM	10278	CG2	ILE C		10.232	104.412	101.217	1.00	13.64	••
ATOM	10282	C	ILE C		14 510	102.230	102.478	1.00	15.37	
ATOM	10283	Õ	ILE C		14.512	103.389	103.749	1.00	17.06	
ATOM	10284	N	ASN C	, 370	14,034	102.404	104.506	1.00	17.32	
ATOM	10286	CA	ASN C		15.543	103./44	102.976	1.00	17.57	•
ATOM	10288	CB	ASN C		10.820	103.013	102.968		17.73	
ATOM	10291	CG	ASN C	. 311 . 277	17.752	103.496	101.848	1.00	17.99	
ATOM	10292		ASN C	377	18.896	102.520	101.578	1.00	19.82	
ATOM	10293	ND2	ASN C	277	20.070	102.880	101.638	1.00	21.89	
ATOM	10296	C	ASN C		10.552	101.269	101.319	1.00	21.75	
ATOM	10297	ŏ	ASN C		10 100	103.162	104.283	1.00	17.65	
ATOM	10298	N	ILE C		10.123	102.204	104.772		17.41	
ATOM	10300	CA	ILE C		10 224	104.362	104.861	1.00	17.48	
ATOM	10302	СВ	ILE C	370	10.224	104.627	106.099	1.00	17.47	
ATOM	10304	CG1	ILE C	378	10.104	106.130	106.434	1.00	17.43	
ATOM	10307	CD1			10.904	106.953	105.415	1.00	18.45	
ATOM	10311	CG2			10.754	108.508	105.545	1.00	18.06	
ATOM	10315	C	ILE C		17 654	106.411	107.814	1.00	18.61	
ATOM	10316	ŏ	ILE C		10 400	103.753	107.247	1.00	17.23	•
MOTA	10317	N	PHE C		16 220	103.188	108.018	1.00	16.66	
MOTA	10319	CA	PHE C	379	15 650	103.626	107.318	1.00	17.55	
ATOM	10321	CB	PHE C		10.009	102.894	108.394	1.00	17.18	
ATOM	10324	CG	PHE C		14.332	103.566	108.741	1.00	16.99	
MOTA	10325	CD1	PHE C	379	13 015	104.9/3	109.255 108.612	1.00	16.94	
ATOM	10327		PHE C	379	14 005	100.031	108.612	1.00		
ATOM	10329	CZ	PHE C	379	14.005	107.290	109.074	1.00		
ATOM	10331		PHE C	379	15 408	107.559	110.174	1.00	15.48	
ATOM	10333	CD2	PHE C	379	15.400	100.313	110.832	1.00	16.69	
ATOM	10335	С	PHE C		15.200	101.445	110.367	1.00	18.66	
ATOM	10336	0	PHE C	379	14 307	101.445	108.028	1.00	17.81	
ATOM	10337	N	SER C	380	16 509	100.748	108.065	1.00	18.46	•
ATOM	10339	CA	SER C	380	16.485	99 310	107.678	1.00	17.88	
MOTA	10341	CB	SER C	380	17.496	99.310	107.441	1.00	17.98	
MOTA	10344	OG	SER C	380	17.303	90.909	106.356	1.00		
ATOM	10346	С	SER C		16.903	99.647	105.163	1.00	16.61	•
MOTA	10347	0	SER C		17.982	98 047	108.728	1.00	T8.11	
ATOM	10348	N	ALA C		16.077	99.34/	109.228	1.00	18.24	
ATOM	10350	CA	ALA C		16.282	97 262	109.256	1.00	T8.87	
ATOM	10352	CB	ALA C	381	15.004	96 671	110.629	1.00	19.14	
ATOM	10356	C	ALA C	381	17.374	96 227	111.221	1.00	18.10	
MOTA	10357	Õ	ALA C	381	17.918	95.22/	110.613	1.00	T9.86	
ATOM	10358	N	ASP C		17.720	95 740	111.649	1.00	20.58	
MOTA	10360	CA	ASP C	382	18.578	94 574	109.426 109.308	1.00	20.78	
MOTA	10362	CB	ASP C	382	18.049	93 631	109.308	1.00	∠1.80	
					_0.045	22.031	100.21/	1.00	42.59	

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ATOM ATOM	10365 10366	CG OD1	ASP ASP			17.712 18.345		106.924 106.572		25.32 28.27	C O
MOTA	10367		ASP			16.800	93.907	106.184	1.00	31.03	ŏ
MOTA	10368	C	ASP			20.063		109.087		21.30	C
ATOM	10369	0	ASP			20.850		108.880		21.67	0
ATOM	10370 10372	N	ARG			20.464		109.158		20.76	N
ATOM ATOM	10372	CA CB	ARG ARG			21.870 22.102		108.966		20.40	C
ATOM	10374	CG	ARG			21.280		108.964 107.973		20.24 20.86	C
ATOM	10380	CD	ARG			21.471		106.512		20.86	C
ATOM	10383	NE	ARG			21.060		105.651		23.05	N
MOTA	10385	CZ	ARG			21.448		104.392		23.62	Ĉ
ATOM	10386	NH1	ARG	С	383	22.284	98.767	103.791		22.88	N
MOTA	10389		ARG				100.673			23.93	N
ATOM	10392	C	ARG			22.705		110.072	1.00	20.60	C
ATOM	10393	0	ARG			22.193		111.171		20.49	0
ATOM	10394	N.	PRO			23.990		109.791		20.64	N
ATOM ATOM	10395 10397	CA CB	PRO			24.900		110.820		20.23	C
ATOM	10397	CG	PRO PRO	2	384	26.252 25.906		110.100 108.642		20.42	C
ATOM	10403	CD	PRO			24.675		108.487		20.49	C
ATOM	10406	C	PRO			24.938		112.006		20.18	č
ATOM	10407	Ō	PRO			24.774		111.839		20.56	ŏ
ATOM	10408	N	ASN			25.073		113.198		19.50	Ň
ATOM	10410	CA	ASN			25.282		114.440	1.00	18.82	С
MOTA	10412	СВ	ASN			26.525		114.315		18.73	С
ATOM	10415	CG			385	27.764		113.980		19.31	С
ATOM	10416		ASN			28.111		114.686		18.15	0
ATOM ATOM	10417 10420	ND2	ASN		385	28.423 24.105		112.887		20.05	N ·
ATOM	10420	0			385	24.103		114.988 115.967		17.94 17.75	C O
MOTA	10422	N			386	22.920		114.404		17.73	N
ATOM	10424	CA			386	21.746		114.863		16.98	C
ATOM	10426	CB			386	20.583		113.834		16.96	č
MOTA	10428		VAL			19.256		114.462	1.00	17.21	С
MOTA	10432		VAL			20.843		112.699		16.77	С
ATOM	10436	C			386	21.323		116.230		16.99	С
MOTA	10437	0			386	21.182		116.411		16.69	0
MOTA MOTA	10438 10440	N CA			387 387	21.143 20.861		117.198 118.568		16.81	N
ATOM	10440	CB			387	21.595		119.582		17.01 17.44	C
MOTA	10445	CG			387	23.103		119.742		19.87	C
ATOM	10448	CD			387	23.773		120.958		25.61	č
ATOM	10449		GLN	С	387	23.707		122.088		28.07	ō
MOTA	10450		GLN	С	387	24.430		120.730		28.85	N
MOTA	10453	С			387	19.351		118.800		16.32	С
ATOM	10454	0			387	18.875		119.549		15.38	0
MOTA	10455	N			388	18.594		118.095		16.53	N
MOTA MOTA	10457 10459	CA CB			388 388	17.144 16.764		118.264 118.965		16.09	C
ATOM	10459	CG			388	17.286		120.404		16.06 18.42	C
ATOM	10465	CD			388		100.927			18.48	č
ATOM	10466		GLU				102.090			15.22	ŏ
ATOM	10467	OE2	GLU	С	388		100.703			21.22	ŏ
ATOM	10468	С	GLU	С	388	16.430	98.210	116.930		15.40	Ċ
MOTA	10469	0			388	15.942		116.383		15.04	0
MOTA	10470	N			389	16.403		116.390		15.72	N
ATOM	10471	CA			389	15.651	96.688	115.150		15.71	C
ATOM ATOM	10473 10476	CB CG			389 389	15.727 16.318		115.032		15.89	C
ATOM	10476	CD			389	17.120		116.329 116.882		14.99 15.27	C
										10.21	_

ATOM	10482	C	PRO	С	389		14	.197	97 143	115.228	1 00	16.18
ATOM	10483	0	PRO				13	704		114.307		
MOTA	10484	N	GLY					536		116.346		15.95 16.92
ATOM	10486	CA	GLY					.155		116.556		
MOTA	10489	C	GLY					.889	99 750	116.334		16.79
MOTA	10490	ō	GLY					.893	90.750	115.718		17.11
ATOM	10491	N	ARG					745				17.75
ATOM	10493	CA	ARG						101 002	116.878		17.66
ATOM	10495	CB	ARG			•	12	614	101.082	110.655		18.13
ATOM	10498	CG	ARG				13	676	101.934	117.413	1.00	18.77
ATOM	10501		ARG				10	6/5	101.810	118.857		24.55
ATOM	10501	NE	ARG				14.	. 683	102.805	119.477		29.16
ATOM	10504	CZ					14.	100	104.107	119.567		31.78
ATOM			ARG				13.	182	104.413	120.470		34.82
ATOM	10507		ARG				12.	835	103.520	121.392		36.74
	10510	NH2					12.	. 626	105.609	120.456		37 <b>.</b> 16
ATOM	10513	C	ARG				12.	818	101.466	115.210		16.18
ATOM	10514	0	ARG					147	102.322	114.689		15.38
ATOM	10515	N	VAL				13.	847	100.894	114.606	1.00	15.70
	10517	CA	VAL		392		14.	229	101.269	113.247	1.00	15.66
ATOM	10519	СВ	VAL				15.	553	100.608	112.817		15.19
ATOM	10521		VAL				15.	.897	100.980	111.376		15.63
ATOM	10525		VAL		392		16.	. 687	101.041	113.724		14.28
ATOM	10529	C	VAL				13.	.081	100.953	112.282	1.00	15.55
ATOM	10530	0	VAL				12.	685	101.791	111.480	1.00	14.85
ATOM	10531	N	GLU				12.	511	99.764	112.435	1.00	16.20
ATOM	10533	CA	GLU					417	99.333	111.588	1.00	17.13
MOTA	10535	CB	GLU					121	97.859	111.816		17.76
ATOM	10538	CG	GLU		393			758	97.464	111.291		21.52
MOTA	10541	CD	GLU					695	96.060	110.805		25.44
MOTA	10542	OE1						791	95.881	109.555		28.53
ATOM	10543	OE2	GLU					519	95.164	111.680		29.10
MOTA	10544	С	GLU				10.	142	100.173	111.759	1.00	16.73
MOTA	10545	0	GLU				9.	493	100.506	110.781	1.00	17.69
ATOM	10546	N	ALA				9.	775	100.498	112.984		15.86
ATOM	10548	CA	ALA				8.	653	101.398	113.245		15.54
ATOM	10550	CB	ALA				8.	404	101.526	114.760		15.28
ATOM	10554	С	ALA				8.	851	102.788	112.623		15.35
ATOM	10555	0	ALA				7.	879	103.395	112.117		14.06
MOTA	10556	N	LEU		395		10.	096	103.275	112.652		15.22
ATOM	10558	CA	LEU	С	395		10.	452	104.558	112.014		15.78
MOTA	10560	CB	LEU				11.	852	104.992	112.420		15.68
MOTA	10563	CG	LEU		395		11.	918	105.480	113.861		16.97
MOTA	10565	CD1	LEU				13.	361	105.689	114.268		19.03
ATOM	10569	CD2	LEU	С	395		11.	107	106.770	114.058		18.08
ATOM	10573	C	LEU	С	395		10.	355	104.529	110.485		16.08
ATOM	10574	0	LEU	С	395		10.	014	105.516	109.859		16.06
MOTA	10575	N	GLN	С	396		10.	642	103.382	109.894		16.66
MOTA	10577	CA	GLN	С	396		10.	517	103.229	108.459		17.47
ATOM	10579	CB	GLN	С	396		11.	134	101.895	108.028		17.68
MOTA	10582	CG	GLN	С	396		11.	324	101.768	106.542		16.72
ATOM	10585	CD	GLN	С	396			835	100.405	106.179		18.42
MOTA	10586	OE1	GLN	С	396			147	99.393	106.369	1.00	18.27
ATOM	10587	NE2	GLN	С	396				100.367	105.647		17.65
MOTA	10590	С	GLN				9.	072	103.279	107.956		17.63
ATOM	10591	0	GLN				8	821	103.809	106.869		17.64
MOTA	10592	N	GLN				8	149	102.710	108.724		17.50
ATOM	10594	CA	GLN				6	740	102.654	108 344		18.27
ATOM	10596	СВ	GLN				5	859	102.191	109 506		19.03
ATOM	10599	CG	GLN				Δ.	431	101.773	109.300		23.38
ATOM	10602	CD	GLN				3.	449	101.459	110 100		26.76
ATOM	10603	OE1					2	222	101.632	110 031		28.67
		_		_	- <b>- ·</b>		ه ت			*****	1.00	20.07

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ATOM	10604	NE2	GLN	С	397	3.983	100.997	111 327	1 00	26.27	
ATOM	10607	С	GLN	Ċ	397	6.147	103.537	107.740		17.26	N
ATOM	10608	0			397	5 620	103.884	106.740			C
ATOM	10609	N			398	6 167	105.066	100.033		17.45	0
ATOM	10610	CA			398	5 557	106.287	100.437		16.37	N
MOTA	10612	СВ			398	5 840	107.337	107.001		16.00	С
ATOM	10615	CG			398	6 961	106.770	100.343		15.99	C
ATOM	10618	CD			398	6 697	105.304	109.735		16.38	С
ATOM	10621	c			398	6 135	105.304	109.700		16.31	С
ATOM	10622	ō			398	5 441	107.395	106.330		15.98	C
ATOM	10623	N			399	7 391	106.359	105.774		16.26	0
ATOM	10625	CA			399	7.301 8 010	106.723	100.237		15.50	N
ATOM	10627	СВ			399	0.010	106.723	104.9/5		15.01	C
ATOM	10630	CG	ΨYR	Č	399	10 020	107.922	105.104		14.45	C
ATOM	10631	CD1			399	10.020	107.922	100.008		14.13	С
ATOM	10633	CE1				10.410	107.694	107.319		14.06	С
ATOM	10635	CZ			399	10.034	110.016	108.141		15.10	C
ATOM	10636	OH			399	11 2/2	111.020	107.658		12.68	С
ATOM	10638		TYR			11.243	111.020	108.451		13.28	0
ATOM	10640	CD2			399	10.444	110.281	106.386		14.91	С
ATOM	10642	C			399	7 542	109.218	105.558		14.31	С
ATOM	10643	õ			399	7.342	105.801	103.869		15.21	С
ATOM	10644	N	VAL			7.317	106.255	102.759		15.21	0
ATOM	10646	CA	VAL			7.391	104.519	104.175		15.84	N
ATOM	10648	CB	VAL			6.112	103.571	103.248		16.94	С
ATOM	10650		VAL			6.034	102.110	103.743		16.80	С
ATOM	10654		VAL			0.125	101.182	102.760		16.87	С
ATOM	10658	C	VAL			. 0.2/0	101.667	103.916		17.11	С
ATOM	10659	Ö	VAL			7.319	103.962	102.969		17.15	С
ATOM	10660	N	GLU			4.912	104.001	101.819		16.77	0
ATOM	10662	CA	GLU			9.302	104.267	104.023		18.06	N
ATOM	10664	CB	GLU			3.1/6	104.751	103.875		18.84	С
ATOM	10667	CG	GLU			2.331	105.092	105.240	1.00	19.09	С
ATOM	10670	CD	GLU			1.929	103.886	105.935		21.89	С
ATOM	10671		GITA			1.442	104.153	107.356		24.70	С
ATOM	10672		GLU			1.243	103.183	108.115		27.79	0
ATOM	10673	C	GLU			2 120	105.318	107.732		28.43	0
ATOM	10674	ŏ	GLU			2.143	105.968	102.956		18.12	С
ATOM	10675	N	ALA			2.30/	106.001 106.947	102.007		17.39	0
ATOM	10677	CA	ALA			3.904	108.947	103.236		18.19	N
ATOM	10679	CB	ALA			5.993	100.204	102.503		18.17	С
ATOM	10683	C	ALA			4 270	107.995	103.093		18.00	С
ATOM	10684	ŏ	ALA			3 631	107.993	101.005		18.61	C
ATOM	10685	N	LEU			5 213	107.114	100.154		18.66	0
ATOM	10687	CA	LEU			5 610	106.879			18.75	N
ATOM	10689	CB	LEU				106.192	99.321		19.05	C
ATOM	10692	CG	LEU				105.797	99.275		19.15	С
ATOM	10694		LEU				107.045	97.878		18.67	C
ATOM	10698	CD2	LEU	č	403		107.045	97.046		18.95	C
ATOM	10702	C	LEU				104.956	97.957		16.47	С
ATOM	10703	ŏ	LEU			4.372	106.034	98.554		19.21	C
ATOM	10704	N	LEU	č	407	3.333	105.234	97.342		18.82	0
ATOM	10706	CA	LEU	č	404	2 700	103.140	99.253		19.19	N
ATOM	10708	CB	LEU				104.395	98.684		19.67	C
ATOM	10711	CG	LEU				103.363	99.684		19.97	C
ATOM	10713		LEU				102.369	99.318		20.24	C
ATOM	10717	CD2	LEU	č	404		101.863	98.014		21.39	C
ATOM	10721	C	LEU				101.337	100.381		20.47	C
ATOM	10722	Õ	LEU				105.372	98.302		19.98	C
ATOM	10723	Ŋ	SER				105.328	97.187		20.57	0
MOTA	10725	CA	SER				106.259	99.235		20.27	N
				_		0.336		99.022	T.00	20.15	С

ATC	M 1072	7 CE	SER	C 405	0.27	2 108.202	100 000	_				
ATC	M 1073			C 405		5 107.924	100.288		20.21			С
ATC	M 10732	2 C		C 405		0 108.248	100.983		20.15			0
ATO	M 10733	3 0		C 405		1 108.543			20.03			· C
ATO	M 10734	4 N		C 406		4 108.702			20.53			0
ATO	M · 10736	6 CA	TYR	C 406	2.04	2 109.688			20.00			N
ATO	M 10738	3 СВ	TYR	C 406		7 110.093			19.97			、C
ATO	M 10741	L CG	TYR	C.406	J. 55 4 51	4 111.222			19.91			C
ATO	M 10742	CD		C 406	4 30	B 112.542			18.94			С
ATO	M 10744	CE	1 TYR	C 406		7 113.586			18.21	•		С
ATO	M 10746	5 CZ		C 406	5 41°	113.386			18.94			C
ATO			TYR	C. 406	5 86	5 114.295	94.746 93.927		19.59			С
ATO		CE.	2 TYR	C 406	5.52	6 111.977		1.00	19.88			, · O
ATO:			2 TYR	C 406	5.07	110.963	94.325 95.140	1.00	19.06			С
ATO		3 C	TYR	C 406	2.469	109.172	95.510		19.40			С
ATO		0	TYR	C 406	2.04	109.898	94.626	1.00	20.35			С
· ATO	_		THR	C 407	2.854	107.916	95.308	1.00	20.27			. 0
ATO			THR	C 407	2.865	107.287	93.989	1.00	21.37			N .
ATO	•		THR	C 407	3.704	105.960	93.992	1.00	21.91	٠.		С
ATO			1 THR	C 407	3.301	105.094	95.061	1.00	51.83			С
ATO			2 THR	C 407	5.188	106.223	94.250	1.00	20.54			.0
ATO				C 407	1.453	106.984	93.492	1.00	22.28			С
ATO			THR	C 407	1.188	107.060	92.300	1.00 2	23.05			C
ATO	• •			C 408	0.559	106.637	94.410					0
ATO			ARG	C 408	-0.807	106.265	94.065	1.00 2	24.46			N
ATO			ARG	C 408	-1.491	105.678	95.298	1.00 2	20.05			C
ATO			ARG		-2.916	105.192	95.109	1.00 2	20.3/			C
ATON	_			C 408	-3.866	105.573	96.266	1.00 3	23.43			C
ATON			ARG	C 408	-4.798	104.490	96.601	1.00	36 66			C
ATON		CZ	ARG	C 408	-4.462	103.356	97.226	1.00 3	20.00 28 an			N
ATOM		NHI	ARG	C 408	-3.199	103.126	97.604	1.00 3	39 24			C
ATOM ATOM			ARG	C 408.	-5.401	102.442	97.467	1.00 3	9 84			N
ATOM		C		C 408	-1.557	107.482	93.507	1.00 2	6 15		•	N C
ATOM		0	ARG	C 408	-2.403	107.358	92.626	.1.00 2	6.69			0
ATOM		N	TPE (	C 409	-1.209	108.659	94.002	1.00 2	6.64			N
ATOM		CA CB	TLE	C 409	-1.754	109.912	93.505	1.00 2	6.91			. C
ATOM			ILE (	C 409	-1.638	110.998	94.597	1.00 2				č
ATOM		COT	ILE (	2 409	-2.524	110.619	95.793	1.00 2	6.61			č
ATOM		CC3	ILE	2 409	-2.277	111.419	97.028	1.00 2	6.26			č
ATOM		C	TIP	C 409	-2.001	112.382	94.029	1.00 2	6.68	•		č
ATOM		ŏ		C 409	-1.040	110.368	92.237	1.00 2	7.54			č
ATOM		N		2 410	-1.668	110.954	91.354	1.00 2				ŏ
ATOM		CA	LYS	2 410	1 047	110.098	92.134	1.00 2	8.09			N
ATOM	10816	СВ	LYS		2.550	110.546 110.495		1.00 2	8.82			С
MOTA		CG	LYS	2 410	3 403	110.495	91.278	1.00 2	8.98			С
ATOM		CD	LYS (	2 410	4 840	110.867	90.321	1.00 3	0.02			C
MOTA	10825	CE	LYS	410	5 790	111.947	90.222	1.00 3	0.46			С
MOTA		NZ	LYS (	410	7.240	111.551	89.723	1.00 3	1.05			С
MOTA		С	LYS (	410	0.712	109.774	89.853	1.00 2	9.84			N
MOTA		0	LYS (	410	0.346	110.385	89.692 88.709	1.00 2	8.70			С
ATOM		N	ARG C	411	0.867	108.449	89.701	1.00 2	9.01			. 0
ATOM	10836	CA	ARG C	411	0.430	107.583	88.601	1.00 2	8.92 0.15			N
ATOM		CB	ARG C	411	1.606	106.837	87.950	1.00 2	9.15			C
ATOM	10841	CG	ARG C	411	2.899	107.622	87.784	1.00 2 1.00 3	J.∠b			C
ATOM	10844	CD	ARG C		3.182	108.149	86.369	1.00 3	U.JZ			C
ATOM	10847	NE	ARG C		3.796	109.475	86.457	1.00 3	3 VE T•30			C
MOTA	10849	CZ	ARG C	411	3.974	110.310	85.441	1.00 3	3 60			N
ATOM	10850	NH1	ARG C	411	3.616	109.968	84.209	1.00 3	3.00			C
ATOM	10853		ARG C	411	4.534	111.498	85.663	1.00 3				N
MOTA	10856	С	ARG C	411	-0.590	106.549	89.094	1.00 29				N C
												C

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ATOM	10857	0	ARG	C	411	-0.255 105.380 89.239 1.00 29.32	0
ATOM	10858		PRO		412	-1.824 106.966 89.355 1.00 29.53	N
MOTA	10859		PRO			-2.879 106.030 89.763 1.00 29.86	Ċ
ATOM	10861		PRO			-4.163 106.873 89.649 1.00 29.93	č
	10864		PRO			-3.753 108.184 89.010 1.00 29.82	č
MOTA							č
ATOM	10867	CD	PRO				c
ATOM	10870	С	PRO			-3.001 104.756 88.908 1.00 30.29	
ATOM	10871	0	PRO		412	-3.254 103.676 89.450 1.00 30.16	0
MOTA	10872	N	GLN			-2.825 104.874 87.596 1.00 30.80	N
MOTA	10874	CA	GLN			-2.992 103.731 86.706 1.00 31.04	С
ATOM	10876	CB	GLN		413	-3.915 104.115 85.539 1.00 31.05	C
ATOM	10879	CG ·	GLN	С	413	-5.426 103.950 85.866 1.00 30.71	C
MOTA	10882	CD	GLN			-6.187 105.272 85.930 1.00 30.28	С
MOTA	10883	OE1	GLN	С	413	-6.175 105.957 86.959 1.00 29.01	0
MOTA	10884	NE2	GLN	С	413	-6.862 105.622 84.834 1.00 29.34	N
MOTA	10887	С	GLN			-1.634 103.130 86.260 1.00 31.55	С
MOTA	10888	Ō	GLN				0
MOTA	10889	N	ASP			-0.708 103.024 87.225 1.00 31.99	N
MOTA	10891	CA	ASP			0.502 102.201 87.115 1.00 32.28	С
ATOM	10893	CB	ASP			1.693 102.973 86.522 1.00 32.58	Ċ
ATOM	10896	CG			414	2.975 102.105 86.405 1.00 33.35	Ċ
			ASP			2.879 100.856 86.272 1.00 33.13	Õ
ATOM	10897					4.128 102.585 86.433 1.00 34.30	ŏ
MOTA	10898		ASP			0.852 101.696 88.509 1.00 32.43	č
ATOM	10899	C			414	0.852 101.696 88.509 1.00 32.43	0
ATOM	10900	0			414	1.710 102.258 89.188 1.00 32.08	N
MOTA	10901	N			415	0.174 100.631 88.924 1.00 32.65	IN C
ATOM	10903	CA			415	0.314 100.093 90.274 1.00 32.99	о и с с с о о с о и с с с с
MOTA	10905	CB			415	-0.656 98.927 90.491 1.00 33.51	C
ATOM	10908	CG			415	-2.143 99.269 90.401 1.00 34.79	C
MOTA	10911	CD			415		C
ATOM	10912	OE1			415	-3.260 97.819 91.951 1.00 38.72	0
ATOM	10913	NE2	GLN	С	415	-3.474 97.330 89.755 1.00 35.09	N
MOTA	10916	С	GLN	С	415	1.722 99.590 90.587 1.00 32.61	С
MOTA	10917	0	GLN	С	415	2.129 99.584 91.743 1.00 32.42	0
MOTA	10918	N	LEU	C	416	2.454 99.160 89.565 1.00 32.30	N
ATOM	10920	CA	LEU	С	416	3.753 98.527 89.771 1.00 32.17	С
MOTA	10922	СВ			416	4.034 97.516 88.657 1.00 32.29	С
MOTA	10925	CG	LEU	C	416	2.979 96.416 88.479 1.00 32.42	С
ATOM	10927	CD1			416	3.251 95.656 87.204 1.00 33.06	CCC
ATOM	10931	CD2			416	2.945 95.460 89.664 1.00 32.56	С
ATOM	10935	C			416	4.919 99.516 89.890 1.00 31.82	С
ATOM	10936	ō			416	6 051 99 101 90 125 1.00 32.18	0
ATOM	10937	Ň			417	4.659 100.810 89.747 1.00 31.15	N
MOTA	10939	CA			417	5.718 101.799 89.922 1.00 30.76	С
ATOM	10941	CB			417	5.213 103.220 89.686 1.00 30.88	C
MOTA		CG			417	5.774 103.872 88.419 1.00 32.56	С
ATOM		CD			417	6.769 104.984 88.659 1.00 33.06	C
					417	6.167 106.036 89.465 1.00 33.10	N
ATOM					417	6.705 107.226 89.671 1.00 32.51	Ċ
MOTA						7.871 107.568 89.131 1.00 32.25	Ŋ
MOTA					417		N
MOTA					417		C
MOTA					417		Ö
MOTA					417	7.484 101.677 91.523 1.00 29.82	
MOTA					418	5.370 101.677 92.304 1.00 28.71	N
MOTA					418	5.785 101.604 93.696 1.00 27.67	C
MOTA					2 418	4.577 101.748 94.635 1.00 27.27	C
MOTA					2 418	4.925 101.628 96.091 1.00 27.01	C
ATOM					C 418	5.796 102.527 96.686 1.00 25.81	C
ATOM					C 418	6.115 102.414 98.026 1.00 25.84	C
ATOM		CZ			C 418	5.574 101.394 98.780 1.00 24.52	C
ATOM		CE:	2 PHI	€ (	C 418	4.721 100.493 98.194 1.00 25.16	С
	·						

		•			
ATO	M 10977	7 CD2 PHE C 418	4 207 100	500	
OTA		C PHE C 418	4.397 100.		
ATO	M 10980		6.622 100. 7.792 100.		9 1.00 27.10
ATO		N PRO C 419			
ATON		CA PRO C 419		135 93.738 900 93.856	
ATON		CB PRO C 419	5.977 96.		
ATON		CG PRO C 419	4.610 97.		
ATON		) CD PRO C 419	4.664 98.		
ATOM			8.223 97.	993 93.211	
ATOM			9.203 97.	658 93.860	1.00 26.84 1.00 26.82
ATOM ATOM		0 120	8.299 98.		
ATOM		0 120	9.570 98.		1.00 27.04
ATOM			9.361 99.	034 89.840	
ATOM		0 420	8.656 98.	054 88.947	1.00 27 46
ATOM			8.183 98.	684 87.646	1.00 29.39
ATOM			7.317 97.		1.00 31.22
ATOM		NH1 ARG C 420	6.565 98.3		1.00 31.95
ATOM	11014	NH2 ARG C 420	6.554 99.4 5.809 97.2		
ATOM		C ARG C 420	5.809 97.2 10.562 99.4		
ATOM		O ARG C 420	11.759 99.2		
ATOM		N MET C 421.	10.060 100.5		
ATOM		CA MET C 421	10.885 101.4		
ATOM ATOM		CB MET C 421	10.045 102.6	320 93.907	1.00 27.93 1.00 28.32
ATOM		CG MET C 421	9.688 103.6	54 92.883	1.00 28.32
ATOM	11029 11030	SD MET C 421	8.716 104.9	66 93.627	1.00 30.21
ATOM	11030	CE MET C 421 C MET C 421	9.940 105.8	09 94.482	1.00 33.19
ATOM	11035	C MET C 421 O MET C 421	11.521 100.7	34 94.534	1.00 27.79
ATOM	11036	N LEU C 421	12.722 100.8		1.00 27.73
MOTA	11038	CA LEU C 422	10.708 99.9		1.00 27.78
MOTA	11040	CB LEU C 422	11.202 99.2 10.043 98.5		1.00 27.79
MOTA	11043	CG LEU C 422	10.043 98.5 9.063 99.5		1.00 27.66
ATOM	11045	CD1 LEU C 422	8.090 98.6		1.00 26.55
ATOM	11049	CD2 LEU C 422	9.751 100.4	60 98.651 80 98.795	1.00 26.95
ATOM	11053	C LEU C 422	12.150 98.1	14 95.956	1.00 26.39 1.00 28.12
ATOM ATOM	11054	O LEU C 422	13.132 97.8	09 96.633	1.00 28.12
ATOM	11055 11057	N MET C 423	11.870 97.5		1.00 28.33
ATOM	11057	CA MET C 423 CB MET C 423	12.715 96.4	83 94.237	1.00 28.41
ATOM	11062	CB MET C 423 CG MET C 423	12.081 95.9	34 92.979	1.00 28.75
ATOM	11065	SD MET C 423	10.748 95.2		1.00 30.50
ATOM	11066	CE MET C 423	10.930 93.5 9.884 92.8		1.00 35.50
ATOM	11070	C MET C 423			1.00 34.00
ATOM	11071	O MET C 423	14.131 96.9 15.063 96.18		1.00 28.15
ATOM	11072	N LYS C 424	14.294 98.28	32 93.805 31 93.741	1.00 28.57
ATOM	11074	CA LYS C 424	15.600 98.8		1.00 27.55
ATOM ATOM	11076	CB LYS C 424	15.454 100.19		1.00 26.88 1.00 27.25
ATOM	11079	CG LYS C 424	14.701 100.0		1.00 27.25
ATOM	11082 11085	CD LYS C 424	15.579 99.55	6 90.226	1.00 27.94
ATOM	11088	CE LYS C 424 NZ LYS C 424	14.719 98.80	5 89.211	1.00 28.39
ATOM	11092		15.410 98.58	87.902	1.00 29.25
ATOM	11093	C LYS C 424 O LYS C 424	16.436 98.97		1.00 26.24
MOTA	11094	N LEU C 425	17.655 99.04		1.00 26.48
MOTA	11096	CA LEU C 425	15.791 99.00 16.506 98.86	–	1.00 25.14
MOTA	11098	CB LEU C 425	16.506 98.86 15.567 99.07		1.00 24.15
MOTA	11101	CG LEU C 425	14.860 100.42		1.00 23.90
ATOM	11103	CD1 LEU C 425	14.053 100.41	6 98.511 8 99.797	1.00 23.74
ATOM	11107	CD2 LEU C 425	15.812 101.61	8 98.508	1.00 24.76
ATOM	11111	C LEU C 425	17.197 97.48	2 97.189	1.00 22.52 1.00 23.59
				- 27.103	1.00 23.59

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ATOM	11112		LEU C		18.274	97.338	97.784	1.00			O N
ATOM	11113		VAL C		16.573	96.479 95.149	96.582 96.491	1.00			C
ATOM	11115		VAL C		17.171 16.246	94.123	95.795	1.00			č
MOTA	11117 11119		VAL C		16.890	92.781	95.767		22.20		Č
MOTA MOTA	11113		VAL C		14.924	94.020	96.482		22.82		C
ATOM	11127		VAL C		18.462	95.224	95.683		24.42		С
ATOM	11128		VAL C		19.526	94.762	96.105	1.00	24.43		0
ATOM	11129		SER C		18.359	95.812	94.502		25.52		N
ATOM	11131		SER C		19.505	95.924	93.622		26.19		C
MOTA	11133		SER C		19.065	96.482	92.262		26.30		C
MOTA	11136		SER C		18.360	95.477	91.533		26.75		0 C
MOTA	11138	C	SER C	427	20.618	96.763	94.264 94.041		26.49 26.75		Ö
MOTA	11139		SER C		21.786 20.245	96.499 97.742	95.084		26.85		Ŋ
MOTA	11140		LEU C		20.245	98.598	95.801		27.26		"c
ATOM	11142		LEU C		20.470	99.730	96.531		27.07		C
ATOM ATOM	11144 11147	CG	LEU C			101.034	95.800		27.26		С
ATOM	11147		LEU C			101.845	96.516		27.13	•	C
ATOM	11153		LEU C			101.814	95.667	1.00	27.93		С
MOTA	11157	C	LEU C		22.017	97.855	96.854		27.70		C
ATOM	11158	0	LEU C	428	23.140	98.254	97.162		27.62		0
ATOM	11159	N	ARG C		21.425	96.826	97.457		28.50		N
ATOM	11161	CA	ARG C		22.133	96.012	98.453		29.02		C
MOTA	11163	СВ			21.210	94.976	99.098 100.213		29.00 28.11		c
MOTA	11166	CG	ARG C		20.383 21.178		101.350		28.39		č
ATOM	11169	CD	ARG C		20.346		102.056		27.41		N
MOTA	11172 11174	NE CZ	ARG C		19.451		102.963		28.85		С
ATOM ATOM	11175		ARG C		19.265		103.322		31.15		N
ATOM	11178		ARG C		18.738		103.537	1.00	30.76		N
MOTA	11181	C	ARG C		23.287	95.272	97.821		29.62		С
MOTA '	11182	0	ARG C	429	24.364		98.392		29.89		0
MOTA	11183	N	THR C		23.046		96.647		30.50		N
MOTA	11185	CA	THR C		24.082		95.920		31.56		C
MOTA	11187	СВ	THR C		23.477		94.730 95.126		31.43		ŏ
MOTA	11189	OG1			22.265 24.389		94.338		31.71		č
ATOM	11191	CG2	THR C		25.168		95.409		32.38		C
ATOM ATOM	11195 11196	C O	THR C		26.358		95.511		32.48		0
MOTA	11197	N	LEU C		24.738		94.873	1.00	33.48		N
ATOM	11199	CA	LEU C		25.643		94.289		34.20		С
MOTA	11201	CB	LEU C		24.832	98.140			34.11		C
MOTA	11204	CG	LEU C		25.343				33.49		C
MOTA	11206		LEU C		26.590				33.07		C
MOTA			LEU C	2 431	24.240				33.37 35.06		c
ATOM		C	LEU C		26.536				35.38		ŏ
ATOM		0	LEU C		27.692 25.988				35.73		N
ATOM				C 432 C 432	26.733				36.37		С
MOTA MOTA				C 432	25.800				36.43		С
MOTA				2 432	26.504		100.127	1.00	36.57		0
ATOM				C 432	27.868			1.00	36.97		C
ATOM				C 432	28.96				37.30		0
ATOM	11227	N		C 433	27.60				37.48		N
ATOM	11229	CA		C 433	28.62				0 37.95		C
ATOM				C 433	27.99				0 37.93		0
ATOM				C 433	28.96				0 37.61 0 38.16		c
ATOM				C 433	29.79 30.82				0 38.14		ő
MOTA				C 433 C 434	29.60				0 38.84		N
ATOM	11238	3 N	AVTI	O 232		, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		_, •			

ATOM ATOM ATOM	11242	СВ		C	434 434 434	30.66 30.04	4 96.250	93.744	1.00	39.27 39.17		C
MOTA	11248	CG2	VAL	C	434	30.31 30.53				39.12		С
ATOM ATOM			VAL	C	434	31.72	5 96.891	95.561		39.40 39.80		C
ATOM			VAL	C	.434 435	32.82		95.006	1.00	39.88		C 0
ATOM	11256	CA	HIS	C	435	31.38; 32.26;			1.00	40.41		N
ATOM			HIS	С	435	31.50				40.75		С
ATOM ATOM		CG	HIS	C	435	32.19	7 101.061	98.230		41.04 41.83		C
ATOM		CEI	HIS HIS	C	435	32.20	101.650	99.477	1.00	43.00		C N
ATOM		NE2	HIS	C	435	32.88	102.784		1.00	42.90		C
ATOM	11268		HIS	С	435	32.89	0 102.954 5 101.892			42.88		N
ATOM	11270	С	HIS	С	435	33.530	98.341	97.420 97.683		42.60 40.75		C
ATOM ATOM	11271 11272	O ·	HIS	C	435	34.607	98.910	97.479	1.00	40.75	•'	C
ATOM	11274	N CA	SER SER	C	436	33.394		98.519	1.00	40.83		. O
ATOM	11276	CB	SER	C	436	34.549 34.139		99.182	1.00	40.81		C
ATOM	11279	OG	SER	С	436	34.193	95.418 94.289	99.918 99.059	1.00	40.91		C .
MOTA MOTA	, 11281	C	SER	C	436	35.655	96.390	98.176	1.00	40.56 40.74	•	0.
ATOM	11282 11283	N O	SER GLU			36.814	96.743	98.390	1.00	40.71		C .
ATOM	11285	CA	GLU	C	437 437	35.268 36.197		97.066	1.00	40.74		N
MOTA	11287	CB	GLU	С	437	35.425	95.305 94.739	96.030	1.00	40.71		C
ATOM ATOM	11290	CG	GLU	С	437	34.469	93.593	94.828 95.137	1.00	40.67		C
ATOM	11293 11294	CD OF 1	GLU GLU	C	437	34.106	92.800	93.896	1.00	39.60		C
ATOM	11295	OE1	GLU	C .	43 <i>1</i> 437	33.001 34.936		93.346	1.00	38.73	•	Ö
ATOM	11296	С	GLU	C ·	437	37.138	91.976 96.401	93.465 95.522	1.00	38.66		Ö
ATOM ATOM	11297	0	GLU	C ·	437	38.340	96.162	95.354	1.00	40.81	•	C
ATOM	11298 11300	N CA	GLN			36.585	97.589	95.268	1.00	40.76		O N
ATOM	11302	CB	GLN GLN	C 4	438 438	37.337	98.683	94.638	1.00	40.82		C
ATOM	11305	CG	GLN	Č 4	138	36.410 37.068	99.883 101.099	94.373	1.00	40.70		С
MOTA	11308	CD	GLN	C	138	38.002	100.735	93.691 92.534	1.00	40.71 40.27		С
ATOM ATOM	11309 11310	OE1	GLN GLN	C 4	138	37.560	100.554	91.396	1.00	39.98		С 0
ATOM	11313	C	GLN	C 4	138 138	39.293 38.566	100.640	92.827	1.00	39.83		N
ATOM	11314	ō	GLN	$C \stackrel{7}{4}$	138	39.710	99.108 98.822	95.459 95.082	1.00	40.82		C.
ATOM	11315	N	LEU :	D 2	220	-8.763	88.448	91.008	1.00	40.52		0
ATOM ATOM	11317 11319	CA CB	LEU :	D 2	220	-7.657	87.934	90.143	1.00	20.95 29.15		N C
ATOM	11322	CG	LEU I	D 2	20	-6.902 -5.432	86.806	90.853	1.00	29.27		C
ATOM	11324	CD1	LEU	D 2		-3.432	87.114 86.119	91.167	1.00	29.73		С
ATOM ATOM	11328	CD2	LEU I	D 2	20	-4.615	87.140	92.161 89.884	1.00	29.41 30 06		C
ATOM	11332 11333	C O	LEU I	D 2	20	-8.182	87.431	88.804	1.00	29.19		C C
ATOM	11336	N	THR I	0 2	21	-9.391 -7.256	87.338	88.604	1.00	29.21		Ö
MOTA	11338	CA	THR I	2	21	-7.575	87.099 86.615	87.902	1.00	29.27		N
ATOM	11340	CB '	THR I	2 (	21	-6.913	87.534	86.554 85.479	1.00 2	29.28		C
ATOM ATOM	11342 11344	OG1 CG2	THR I	2	21	-5.692	88.106	85.984	1.00 2	29.32 28.79		C
ATOM	11344	CGZ	THR I	) 2	∠↓ 21	-7.801 -7.143	88.749	85.171	1.00 2	29.41		0 C
ATOM	11349	0 !	THR [	2	21	-7.143 -6.549	85.150 84.553	86.365	1.00 2	29.28		С
MOTA	11350	N A	ALA [	2	22	-7.456	84.577	87.258 85.203	1.00 2	29.18		. 0
	11352 11354	CA Z	ALA D	2	22	-7.181	83.159	84.924	1.00 2	.9.31 29.35		N. C
	11358	C I	ALA D	) 2	42 . 22	-7.804 -5.656	82.757	83.551	1.00 2	9.22		C
MOTA	11359	0 1	ALA D	2:	22	-5.656 -5.157	82.809 81.752	84.958	1.00 2	9.44	•	č
ATOM	11360	N A	ALA D	2	23	-4.904	83.701	85.705 84.215	1.00 2	9.16		0
•							. –	<del></del>	2	/		N

7 MOV	11000										
ATOM	11362	CA			223	-3.496	83.431	83.921	1.00 29.	. 62	С
MOTA	11364	CB			223	-2.932	84.505	82.983	1.00 29.	57	
MOTA	11368	С			223	-2.641	83.330	85.176	1.00 29.	06	C
ATOM	11369	0	ALA	. [	223	-1.436		85.086			C
MOTA	11370	N	GLN	_	224	-3.268		86.336	1.00 30.		0
MOTA	11372	CA			224	-2.600	03.333		1.00 29.	. 94	N
ATOM	11374	CB			224			87.627	1.00 29.	. 72	С
MOTA	11377	CG	CLM	-	224	-2.680	84.855	88.269	1.00 29.	. 66	С
ATOM	11380	CD				-1.781	85.888	87.593	1.00 29.	.31	С
ATOM			GLN	F	224	-2.541	87.109	87.102	1.00 29.	38	Ċ
	11381	OET	GLN	Ľ	224	-3.157	87.082	86.012	1.00 29.		ŏ
ATOM	11382		GLN	D	224	-2.494	88.193	87.890	1.00 27.	96	N
MOTA	11385	С			224	-3.196	82.396	88.546	1.00 29.	88	Ċ
ATOM	11386	0			224	-2.456	81.694	89.234	1.00 29.		ō
ATOM	11387	N			225	-4.521	82.258	88.555	1.00 30.	07	И
MOTA	11389	CA			225	-5.187	81.167	89.275	1.00 30.		
MOTA	11391	CB			225	-6.682	81.152	88.950	1.00 30.		C
ATOM	11394	CG	GLU	D	225	-7.461	82.282	89.610	1.00 30.		C
MOTA	11397	CD	GLU	D	225	-8.667	82.737	88.804	1.00 30.		C
MOTA	11398	OE1	GLU	D	225	-8.979	82.129	87.758			C
ATOM	11399	OE2	GLU	D	225	-9.309	83.721	89.223	1.00 29.		0
ATOM	11400	C	GLU	ח	225	-4.571	79.807		1.00 30.		0
MOTA	11401	Ó			225	-4.378	78.965	88.932	1.00 30.		С
MOTA	11402	N			226			89.810	1.00 30.		0
ATOM	11404	CA			226	-4.276	79.602	87.650	1.00 30.		N
ATOM	11406	CB			226	-3.532	78.429	87.191	1.00 31.		С
ATOM	11409	CG			226	-3.299	78.511	85.679	1.00 31.	16	С
ATOM	11411		LEU	ם	226	-2.287	77.542	85.052	1.00 31.	34	C
MOTA	11415	CDI	LEU	מ	220	-2.850	76.125	85.020	1.00 31.	59	С
MOTA	11419	CD2				-1.896	77.993	83.645	1.00 31.	34	С
MOTA					226	-2.185	78.349	87.893	1.00 31.		C
ATOM	11420	0			226	-1.809	77.305	88.432	1.00 31.		Ó
MOTA	11421	N			227	-1.470	79.472	87.869	1.00 31.		N
	11423	CA			227	-0.083	79.541	88.320	1.00 31.		Ĉ
MOTA	11425	CB			227	0.609	80.786	87.720	1.00 31.		č
ATOM	11428	CG			227	0.860	81.966	88.690	1.00 32.		Č
MOTA	11431	SD			227	1.984	83.226	88.025	1.00 33.		S
MOTA	11432	CE			227	1.224	83.647	86.440	1.00 33.		C
ATOM	11436	С	MET	D	227	0.098	79.497	89.844	1.00 31.		C
MOTA	11437	0			227	1.213	79.295	90.315	1.00 31.		0
MOTA	11438	N	ILE	D	228	-0.974	79.686	90.610	1.00 31.		N
ATOM	11440	CA			228	-0.854	79.727	92.071	1.00 32.		C
ATOM	11442	CB	ILE	D	228	-1.987	80.566	92.719	1.00 31.		
MOTA	11444	CG1	ILE	D	228	-1.576	82.037	92.779	1.00 31.		C
MOTA	11447	CD1	ILE	D	228	-2.743	82.991	92.849	1.00 31.		C
ATOM	11451	CG2	ILE	D	228	-2.328	80.067	94.127	1.00 31.		C
MOTA	11455	С	ILE	D	228	-0.827	78.305	92.614	1.00 31.		C
MOTA	11456	0	ILE	D	228	-0.010	77.988	93.473	1.00 32.		C
ATOM	11457	N	GLN			-1.714	77.453	92.103			0
MOTA	11459	CA	GLN	D	229	-1.733	76.043	92.487	1.00 32.		N
MOTA	11461	CB	GLN			-2.996	75.356	91.906	1.00 32.		C
ATOM	11464	CG	GLN			-4.335			1.00 32.		С
ATOM	11467	CD	GLN				75.978	92.370	1.00 32.		C
ATOM	11468		GLN	ח	223	-4.744 -3.936	75.524	93.763	1.00 32.	75	С
ATOM	11469	NE2		Ď	223		75.563	94.700	1.00 31.	80	0
ATOM	11472	C	GLN			-5.999 -0.440	75.096	93.907	1.00 32.		N
MOTA	11473	Ö	GLN			-0.440	75.350	91.982	1.00 33.0	05	С
MOTA	11474	N	GT M	ט	222	0.135	74.327	92.656	1.00 33.	15	0
ATOM	11476		GLN	5	230	0.009	75.921	90.794	1.00 33.3	39 j	N
ATOM .	11478	CA	GLN			1.166	75.417	90.043	1.00 33.	55 (	C
ATOM .	11478	CB	GLN			1.445	76.289	88.805	1.00 33.0	67 (	Č
ATOM			GLN			1.826	75.540	87.551	1.00 33.9	91 (	Č
ATOM	11484 11485	CD	GLN	מ	230	1.364	76.276	86.300	1.00 34.9		Ĉ
ALOM	11403	OEI	GLN	ע	230	1.819	77.391	86.028	1.00 34.4		Ö

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	ATOM			22 GI	N	D 230	0.44	7 75.66	:=.	05 540		_				
	ATOM		9 C	. GL	N	D 230	2.37			85.549		0 34.	29			N
	ATOM			GL	N	D 230	3.04			90.930 91.141		0 33.	43			С
	ATOM ATOM			LE	U	D 231	2.64	76.66	1	91.446		0 33.	59			0
	ATOM			LE	Ü	D 231 .	3.783	L 76.87		92.309		0 33. 0 33.	4U			. N
	ATOM			, TE	U	D 231	3.998	3 78.37		92.575		0 33.	21 10			C
	ATOM			, PR	U TT	D 231 D 231	4.273			91.346		0 32.	99			C
	ATOM			) T.E.	n	D 231	4.425		0	91.736	1.0	0 32.	52		•	C
	ATOM			LE TE	Π	D 231 ·	5.499		4	90.569	1.0	0 32.	74	٠.		c
	ATOM	11509		LE	U	D 231	3.570			93.601	1.0	0 33.:	15			Č
	MOTA	11510	) N			D 232	4.533 2.320			94.139		0 33.5	50			ō
	ATOM	11512		VA	L	D 232	2.039	75.969 75.248		94.067		0 32.9	97			N
	ATOM	11514		VA:	L	D 232	0.587	75.45		95.312		0 33.1	L7.			С
	ATOM	11516		1 VA	L	D 232	0.318		5	95.820 97.064	1.0	0 33.0	06			С
	ATOM	11520		2 VA	L :	D 232	0.338	76.935	5	96.158	1.0	0 32.9 0 33.4	90 .			C
	ATOM ATOM	11524 11525		VA	L i	D 232	2.312	73.759	9	95.151	1.0	0 33.4	90			_(
	ATOM	11526		VA	L, j	D 232	3.141	73.202		95.853	1.0	33.2	.o		•	C
	ATOM	11528		ALA	HA. 1	D 233 D 233	1.614			94.212	1.0	34.0	14			0
	ATOM	11530		AT.2	ו בי ו ב	D 233	1.718			93.992	1.00	34.2	3			C
	ATOM		C	ATA	1 A	233	0.815			92.862	1.00	34.3	35			C
	ATOM	11535		ALA	ÀI	233	3.154 3.554			93.734	1.00	34.5	3			C
	MOTA	11536	N	ALA	·	234	3.918	70.076 71.973		94.230	1.00	34.7	6			ō
	ATOM	11538	CA	ALA	1	234	5.344	71.719		92.977	1.00	34.7	4			N
	ATOM	11540	CB	ALP	1	234	5.809	72.619		92.709 91.577	1.00	35.0	5			C
	ATOM	11544	C	ALP	Y I	234	6.262	71.908		93.946	1.00	35.0 35.5	3			С
	ATOM ATOM	11545 11546	0	ALA	Ţ	234	7.262	71.194		94.097	1.00	35.5	8	•		C
	ATOM	11548	N CA	GLN	1 [	235	5.930	72.871		94.806	1.00	36.1	5			0
	ATOM	11550	CB	GLN	1 L	235 235	6.654	73.071		96.071	1.00	36.9	9			С. И
	ATOM	11553	CG	GL.N	ו ה	235	6.310	74.438		96.707	1.00	36.8	7			C
	ATOM	11556	CD	GLN	, r	235	6.970	74.686	i	98.075	1.00	37.1	9			Č
	ATOM	11557	OE1	GLN		235	7.619 6.965	76.055 77.073		98.190	1.00	37.1	4			č
	ATOM	11558	NE2	GLN	D	235	8.903	76.083		97.965	1.00	37.0	4			0
	ATOM	11561	С	GLN	D	235	6.390	71.925		98.550 97.062	1.00	37.2	7			N
	ATOM	11562	0	GLN	D	235	7.248	71.619		97.899	1.00	37.60 37.5	0		•	С
	ATOM ATOM	11563 11565	N	LEU	D	236	5.222	71.282		96.949	1 00	38.43	5 T			0
	ATOM	11567	CA	LEU	D	236	4.860	70.192		97.864	1.00	39.2	5			N
	ATOM	11570	CB CG	TEO	מ	236 236	3.338	70.064		97.978	1.00	39.43	3			C C
	ATOM	11572		LEU	ם	236	2.567	71.306		98.443	1.00	39.79	9			C
	ATOM	11576	CD2	LEU	ם	236	1.064 2.871	71.102		98.223	1.00	39.92	2			C
	ATOM	11580	C	LEU	D	236	5.452	71.655		99.893	1.00	39.80	)			č
	ATOM	11581	0	LEU	D	236	5.643	68.850 67.956		97.430		39.81	L			С
	ATOM	11582	N	GLN	D	237	5.726	68.711		98.261 96.131	1.00	39.67	7			0
	ATOM ATOM	11584	CA	GLN	D	237	6.315	67.489		95.579	1 00	40.68				N
		11586 11589	CB	GLN	D	237	5.821	67.226		94.145	1 00	41.25	)			C
	ATOM	11592	CG	GLN	D	237	6.585	67.935		93.017	1.00	40.75	<b>,</b>			Ċ
	ATOM	11593		GLN GLN	מ	23/	5.844	67.883		91.677	1.00	40.51	,			C
	MOTA	11594	NE2	GLN	ם	237	6.027	68.757		90.814	1.00	39.72				Ö
	MOTA	11597	C	GLN	D	237	5.012	66.857		91.504	1.00	40.17				N
	ATOM	11598	Ŏ	GLN	D	237	7.841 8.510	67.546		95.654	1.00	42.10				Ċ
		11599	N	CYS	D	238	8.380	66.563 68.711		95.380	1.00	42.26	;			O
		11601	CA	CYS	D	238	9.770	68.823		96.004 96.432	1.00	43.04				N
		11603	CB	CYS	D	238	10.309	70.236		96.159	1.00	43.87 43.91				C
		11606 11607	SG	CYS	D	238	10.457	70.656		94.396	1.00	43.91				C
		11607	C O	CYS	D	238	9.826	68.500		97.928	1.00	44.20				S
		11609	И	CYS ASN	ח	∠38 230	10.759	67.856		8.409	1.00	44.25				C
			••	47OIA	U	439	8.806	68.945		8.654	1.00	44.70				N
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Δ	MOT	11611	CA	ASN	D	239	8.702	68.694	100.086	1.00	45.10		С
	TOM	11613	СВ	ASN			7.436			1.00	45.18		С
	TOM	11616	CG	ASN		239	7.578	69.744	102.095	1.00	45.80		С
	TOM	11617		ASN			7.843	68.902	102.957	1.00	47.36		0
	TOM	11618		ASN			7.398		102.377	1.00	45.05		N
	TOM	11621	C	ASN			8.682	67.208	100.414	1.00	45.50		С
	MOT	11622	ō	ASN			9.311		101.377	1.00	45.49		0
	TOM	11623	N	LYS			7.960	66.444	99.594		46.10		N
	MOT	11625	CA	LYS		240	7.731	65.027	99.833	1.00	46.33		С
	MOTA	11627	CB ·			240	6.397	64.592	99.208	1.00	46.56		С
	MOTA	11630	CG			240	5.141	65.058	99.956	1.00	46.25		С
	MOTA	11633	CD			240	3.856	64.551	99.264	1.00	45.65		С
	MOTA	11636	CE			240	3.156	63.437			45.11		С
	MOTA	11639	NZ	LYS	D	240	1.688	63.399	99.770	1.00	44.72		N
	MOTA	11643	С	LYS	D	240	8.871	64.208	99.233		46.68		С
	MOTA	11644	0	LYS	D	240	9.504	63.410	99.925		46.55		0
	MOTA	11645	N	ARG	D	241	9.114	64.416	97.936		47.01		N
	MOTA	11647	CA	ARG	D	241	10.142	63.696		1.00			С
	MOTF	11649	CB	ARG	D	241	10.492	64.483	95.897	1.00	47.16	•	C
	MOTA	11652	CG	ARG	D	241	11.627	63.918	95.045		46.82		C
2	MOTA	11655	CD	ARG	D	241	11.567	64.331			46.58		С
7	MOTA	11658	NE	ARG	D	241	12.364	63.442			46.17		N
7	MOTA	11660	CZ			241	12.307	63.393			45.75		C
7	MOTA	11661	NHl			241	11.483	64.181			45.44		N
1	MOTA	11664	NH2			241	13.089	62.543			45.82		N
7	MOTA	11667	С			241	11.397	63.436			47.55		C
1	MOTA	11668	0			241	11.920	62.313	98.024		47.59		0
	MOTA	11669	N			242	11.862	64.474			47.87		N C
	ATOM	11671	CA			242	12.994	64.360			48.11		C
	MOTA	11673	CB			242	14.130	65.283			48.20		Ö
	ATOM	11676	OG			242	14.748	64.781			47.67		C
	MOTA	11678	C			242	12.537		101.054		48.36 48.19		Ö
	MOTA	11679	0			242	12.852		) 101.633 / 101.595		48.74		N
	MOTA	11680	N			243	11.771 11.203		102.957		48.90		C
	MOTA	11682	CA			243	9.680		102.863		49.16		Č
	MOTA	11684 11687	CB CG			243 243	9.049		104.079		49.90		Č
	MOTA MOTA	11688				243	9.309		5 104.404		50.91		C C
	ATOM	11690				243	8.712		105.519		51.28		С
	ATOM	11692	CZ.			243	7.832		106.311		51.43		C
	MOTA	11694	CE			243	7.556		3 105.985	1.00	51.08		С
	ATOM	11696	CD			243	8.159		6 104.873		50.59		С
	MOTA	11698	C			243	11.505		5 103.726		48.63		С
	MOTA	11699	Õ			243	11.394	62.37	6 104.952	1.00	48.58		0
	MOTA	11700	N			244	11.849	61.36	4 102.996		48.29		N
	ATOM	11702	CA			244	12.382	60.14	4 103.592		48.06		С
	ATOM	11704	CB			244	11.270		0 104.218		48.10	•	C
	ATOM	11707	OG	SE	R I	244	10.746		1 103.277		47.55		0
	MOTA	11709	С			D 244	13.092		7 102.533		47.93		C
	MOTA					D 244	14.311		7 102.573		47.82		0
	MOTA					D 248	17.681		1 106.502		23.61		N
	ATOM					D 248	19.122		4 106.472		23.99		C
	MOTA					D 248	19.499		7 105.410		24.25		C
	MOTA					D 248	19.13		8 103.961		24.56		c
	MOTA					D 248	19.34		8 103.041		24.62		C
	MOTA					D 248	18.163		3 103.058		24.46		N
	ATOM					D 248	18.10		8 101.778		0 23.95		C
	ATOM					D 248	19.91		7 106.268 6 105.43		0 23.68		Ö
	ATOM					D 248	20.82		7 107.02		0 23.00		Ŋ
	ATOM					D 249	19.53 20.39		8 107.30		0 24.27		Č
	MOTA	1 11735	CA	V P	L.	D 249	20.39	9 01.33	J 107.30.				•
		·											

ATO	M 11737	CB VAL	D 249	19.578	60 050 4					
ATO		CG1 VAL	D 249			07.446	1.00	24.61		C
ATO		CG2 VAL	D 249	20.201	63.839 1	08.484	1.00	25.06		c
ATO		C VAL	D 249	19.440	63.533 1	06.095	1.00	24.50		c
ATO				21.208	61.299 10	08.596	1.00	24.25		
ATO		VAL WIL	D 249 .	20.827	60.454 10	09.439	1.00	25.68		, C
ATO		N THR	D 250	22.350	61.969 10	08.718	1 00	23.74	•	. 0
		CA THR	D 250	23.272	61.701 10	09 820	1.00	23.74		N
ATO		CB THR		24.543	62.578 10	09.626	1.00	23.91		С
ATO		OG1 THR	D 250	25.365	62.086 10	09.093	1.00	23.77		С
ATON		CG2 THR	D 250	25.424	62.428 11	10.017	1.00	26.19	•	0
ATO		C THR	D 250	22.520	62 005 11	10.942	1.00	24.26		С
ATON	M 11762		D 250	22.155	62.005 11	11.099	1.00	23.00		С
ATO	M 11763		D 251	22.290	63.151 11	11.273	1.00	23.62		. 0
ATON	1 11764	CA PRO	D 251		61.031 11	11.999	1.00	22.63		N
ATOM		CB PRO	D 251	21.419	61.299 11	13.152	1.00	22.29	•	C
ATOM		CG PRO	D 251 D 251	21.455		13.949	1.00	22.27		. C
ATOM				21.943	58.958 11	13.006	1.00	21.63		
ATOM		CD PRO	D 251	22.839	59.655 11	12.042	1.00	21.97	•	C
ATOM			D 251	21.941	62.446 11	14.002	1 00	22.45	•	Ċ.
ATOM		O PRO	D 251	23.142	62.692 11	4.044	1 00	22.32	•	C
	,	N TRP	D 252	21.022	63.154 11	4 645	1.00	22.32		0
ATOM			D 252	21.355	64.180 11	5 621	1.00	22.89		N
ATOM	· <b>-</b>	CB TRP	D 252	20.140	65.080 11	5 041	1.00	23.20		C
ATOM		CG TRP	D 252	20.347	66.211 11	6 705	1.00	23.25		С
ATOM		CD1 TRP	D 252	19.884	66 201 11	.6./85	1.00	22.82		С
ATOM		NE1 TRP	D 252	20.249	66.301 11	.8.071	1.00	23.00		С
ATOM	11789	CE2 TRP	0 252	20.961	67.508 11	8.619	1.00	22.54		N
ATOM		CD2 TRP	7 252	20.961	68.223 11	7.693	1.00	20.94		Ĉ
ATOM	11791	CE3 TRP	7 252	21.041	67.437 11	6.525	1.00	21.09		Č
ATOM		CZ3 TRP	7 252	21.712	67.957 11	5.418.	1.00	19.19		č
ATOM		CH2 TRP	252	22.281	69.207 11	5.510	1.00	19.44		č
MOTA		CZ2 TRP	252	22.194	69.963 11	6.688	1.00	19.35		Č
ATOM			252	21.545	69.484 11	7.790	1.00	20.08		
ATOM		C TRP I	252	21.736	63.472 11	6.928	1.00	23.76		C
		O TRP I		20.969	62.645 11	7.429	1.00	22.70		· C
ATOM		N PRO D	253	22.905	63.792 11	7.483	1.00	23.42		0
ATOM		CA PRO D	253	23.396	63.095 118	8 684	1.00	24.21		N.
ATOM		CB PRO D	253	24.851	63.570 118	Q 702	1.00	24.96		С
ATOM		CG PRO D	253	24.834	64.960 118	0.70 <u>2</u> 9 120	1.00	25.11		C
MOTA	11810	CD PRO D	253	23.846	64.833 117	7 000	1.00	24.28		С .
ATOM	11813	C PRO D	253	22.630	63.460 119	7.020	1.00	23.79		С
ATOM	11814	O PRO D	253	22.438	64 633 100	9.965	1.00	25.47		С
ATOM	11815	N LEU D		22.229	64.633 120	0.217	1.00	25.12		0
ATOM	11817	CA LEU D	254	21.485	62.467 120	0.758	1.00	26.64		N
MOTA	11819	CB LEU D	254		62.709 122	2.000	1.00	27.24		C
ATOM		CG LEU D	254	19.976	62.544 121	1.766	1.00 2	27.66		č
ATOM		CD1 LEU D	254	19.017	63.271 122		1.00 2	28.68		Ċ
ATOM		CD2 LEU D	254	17.671	63.554 122	2.025	1.00 2	29.38		č
ATOM	11832	C LEU D	254	18.808	62.484 124	1.047	1.00 2	28.27		Č
ATOM			254	21.955	61.747 123	3.077	1.00 2	27.16		
MOTA		O LEU D	254	23.095	61.829 123	3.524	1.00 2	77 25		C
ATOM		N ALA D	263	30.857	65.517 119		1.00 1	5 02		0
		CA ALA D	263	29.511	66.081 119		1.00	5.02		N
ATOM		CB ALA D	263		66.786 121		1.00 1	13.14 13.14		C
ATOM	11842	C ALA D	263		67.060 118		1.00 1	13.15		. C
ATOM		O ALA D	263		66.893 117		1.00 1	.5.39		C
ATOM		N ARG D	264		68.077 118		1.00 1	5.04		0
ATOM		CA ARG D	264		60 240 112		1.00 1	5.54		N
MOTA	11848	CB ARG D	264		69.248 117		1.00 1	5.58		С
ATOM	11851	CG ARG D	264		70.302 118		1.00 1	.5.89		Ċ
ATOM		CD ARG D	264		71.599 117	.300	1.00 1	7.92		č
ATOM		NE ARG D	264		72.463 117	.405	1.00 2	1.06		č
ATOM		CZ ARG D	264	32.058	73.391 118	.544	1.00 2	3.59		N
ATOM		NH1 ARG D	204	33.010	73.564 119	.469	1.00 2	4.08		C
		ANG D	<b>404</b>	34.143	72.872 119	.436	1.00 2	4.73		. И
								-		TA

ATOM	11863	NH2	ARG I	2	264	32.8	22	74.4	148	120.445	1.00	2	4.83		N
ATOM	11866	C	ARG I			29.9				116.281	1.00	1	5.32		С
ATOM	11867	ŏ	ARG I			29.2				115.484	1.00	) 1	6.01		0
ATOM	11868	Ň	GLN I			30.8				115.896	1.00	1	4.71		N
ATOM	11870	CA	GLN I			31.0				114.501	1.00	) 1	14.45		С
ATOM	11872	CB	GLN I			32.2				114.335	1.00	) 1	14.27		С
ATOM	11875	CG	GLN I			32.7		66.	808	112.924	1.00	) 1	L5.64		С
ATOM	11878	CD	GLN			32.8				112.170	1.00	) 1	17.15		С
ATOM	11879	OE1	GLN			33.3		68.	907	112.706	1.00	) 2	20.03		0
ATOM	11880		GLN			32.3		67.	925	110.934			18.99	•	N
MOTA	11883	С	GLN			29.7	61			113.938	1.00	) ]	13.72		С
ATOM	11884	0	GLN			29.2				112.836			13.91		0
MOTA	11885	N	GLN	D	266	29.1	88	66.	252	114.739			12.91		N
MOTA	11887	CA	GLN	D	266	28.1				114.235			11.84		С
ATOM	11889	CB	GLN	D	266	27.9				115.134			11.26		С
MOTA	11892	CG	GLN	D	266	26.8				114.605			10.67		С
MOTA	11895	CD	GLN			26.4				115.472	1.00		9.95		C
ATOM	11896		GLN			27.4				115.906			14.03		0
MOTA	11897	NE2	GLN			25.0				115.695	1.0		9.62		N
MOTA	11900	С	GLN			26.8				114.044			10.73		C.
ATOM	11901	0	GLN			26.1				113.138			10.79		0
MOTA	11902	N	ARG			26.7				114.880			10.72		N
ATOM	11904	CA	ARG			25.6				114.690	1.0		9.57		C
MOTA	11906	CB	ARG			25.6				115.851			10.02 11.16		C
MOTA	11909	CG	ARG			25.2				117.165		_			C
MOTA	11912	CD	ARG			25.5				118.383 119.462			12.48 14.21		N
MOTA	11915	NE	ARG			24.				120.411			14.60		C
MOTA	11917	CZ			267	24.9				120.411			16.97		N
ATOM	11918		ARG			24.0				121.302			16.03		N
ATOM	11921		ARG		267	25.				113.371	1.0		8.78		Ċ
MOTA	11924	C			267	24.				112.648	1.0		8.97		ō
MOTA	11925 11926	O N			268	27.				113.095	1.0		7.58		N
ATOM ATOM	11928	CA			268	27.				111.908	1.0		8.70		С
ATOM	11920	CB			268	28.				112.062	1.0		8.84		С
ATOM	11933	CG			268	29.				110.957	1.0	0	10.11		С
ATOM	11934		PHE			28.				110.887	1.0		11.63		C
ATOM	11936		PHE			29.				109.868	1.0	0	11.77		С
ATOM	11938	CZ	PHE			30.		73.	. 230	108.922	1.0	0	12.70		С
ATOM	11940		PHE			30.	562	71.	. 937	108.989	1.0	0	11.80		С
ATOM	11942	CD2	PHE	D	268	30.	145			110.003			11.22		С
MOTA	11944	С	PHE	D	268	27.	245			110.625	1.0		9.18		C
MOTA	11945	0	PHE	D	268	26.				109.592	1.0		9.25		0
MOTA	11946	N			269	27.		67	. 917	110.723			10.13		N
MOTA	11948	CA			269	27.				109.618			10.21		C
MOTA			ALA	D	269	28.				110.063			10.31		C
ATOM		С			269		083			2 109.228			10.91		Ö
ATOM					269	25.				108.035			12.36		И
ATOM					270		258			2 110.264			11.18 11.49		C
ATOM					270		750			6 110.215 5 111.661			11.52		č
ATOM					270		176			111.742			10.43		č
ATOM					270		683 923			2 111.742			11.21		N
ATOM			l HIS 1 HIS				646			3 111.764			10.17		C
ATOM		NE.	1 HIS 2 HIS				553			1 112.026			10.35		N
ATOM ATOM			2 HIS	. L	270		813			112.029			10.38		Ċ
ATOM					270		211			8 109.459			11.03		Č
ATOM					270		516			0 108.464			10.07		0
ATOM					271		531			0 109.935			12.19		N
MOTA					271		949			7 109.352			12.95		С
ATOM					271		338			3 110.125			12.73		С

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ATC	M 1198	1 CG PHE D 271	00		
ATC			22.560		5 1.00 13.70
ATC			21.203		7: 1 00 12 04
ATC			20.500	71.577 112.63	3 1 00 13 61
ATC			21.137	72.109 113.74	6 1 00 14 47
ATC			22.484	72.401 113.69	2 1 00 14 60
ATO			23.197	72.161 112 50	7 1.00 15.14
ATO			23.384	70.355 107 89	9 1.00 13.45
ATO			22.601	70.837 107 09	9 1.00 13.45
ATO			24.621	70.002 107 55	3 1.00 13.59
ATO			25.086	70.246 106 17	
ATO			26.635	70.206 106.05	
ATO		2 2 7 2	27.122	68.943 106.47	
ATO			27.306	71.190 107.012	
ATO			24.445	69.214 105.206	
			24.234	69.486 104.024	
ATO			24.099	68.056 105.755	
ATO			23.338	67.043 105.059	
ATO	·	2 2 2 7 3	23.426	65.719 105.819	
ATO			24.778	65.038 105.647	
ATO			24.830	63.592 106.169	
ATO			23.809	62.878 106.075	
ATO		2 2,73	25.899	63 167 106.075	
ATO		C GLU D 273	21.888	63.167 106.677	
ATON		O GLU D 273	21.340	67.443 104.842	
ATOM		N LEU D 274	21.272	67.154 103.794	
ATOM		CA LEU D 274	19.953	68.137 105.805	
ATOM		CB LEU D 274	19.436	68.721 105.606	
ATOM		CG LEU D 274	19.056	69.337 106.928	
ATOM		CD1 LEU D 274	18.540	68.335 108.026	
ATOM		CD2 LEU D 274	18.000	69.067 109.263	
ATOM		C LEU D 274	20.056	67.367 107.499	
ATOM		O LEU D 274	19.120	69.776 104.516	1.00 16.68
ATOM		N ALA D 275	21.186	69.983 103.737	1.00 17.92
ATOM		CA ALA D 275	21.356	70.471 104.489	1.00 16.79
ATOM		CB ALA D 275	22.500	71.617 103.597	1.00 16.89
ATOM		C ALA D 275	21.583	72.509 104.061	1.00 16.76
ATOM		O ALA D 275	21.303	71.118 102.192	1.00 17.11
ATOM		N ILE D 276	22.090	71.812 101.234	1.00 16.72
ATOM	12054	CA ILE D 276	22.223	69.900 102.066	1.00 17.87
ATOM	12056	CB ILE D 276	23.154	69.283 100.760	1.00 18.36
MOTA	12058	CG1 ILE D 276	24.608	68.035 100.816	1.00 18.67
MOTA	12061	CD1 ILE D 276	25.608	68.473 100.639	1.00 18.87
MOTA	12065	CG2 ILE D 276	22.794	67.385 100.887	1.00 18.69
ATOM	12069	C ILE D 276	20.832	67.012 99.727	1.00 18.15
ATOM	12070	O ILE D 276	20.526	68.935 100.221	1.00 18.77
ATOM	12071	N ILE D 277	20.001	69.241 99.077	1.00 18.97
ATOM	12073	CA ILE D 277	18.626	68.310 101.058	1.00 19.19
MOTA	12075	CB ILE D 277	17.814	67.977 100.694	1.00 19.42
ATOM	12077	CG1 ILE D 277	18.524	67.396 101.907	1.00 19.72
MOTA	12080	CD1 ILE D 277	19.224	66.239 102.634	1.00 18.37
ATOM	12084	CG2 ILE D 277	16.448	65.322 101.768	1.00 19.65
ATOM	12088	C ILE D 277		66.914 101.453	1.00 20.12
ATOM	12089	O ILE D 277		69.228 100.193	1.00 19.62
ATOM	12090	N SER D 278		69.171 99.196	1.00 19.60
MOTA	12092	CA SER D 278		70.353 100.885	1.00 19.92
ATOM	12094	CB SER D 278		71.567 100.574	1.00 20.02
ATOM	12097	OG SER D 278		72.644 101.655	1.00 19.97
ATOM	12099	C SER D 278		73.625 101.252	1.00 21.92
ATOM	12100	O SER D 278		72.073 99.180	1.00 19.78
ATOM	12101	N VAL D 279		72.363 98.358	1.00 19.35
MOTA	12103	CA VAL D 279	19.040	72.165 98.936	1.00 19.89
		2 2,3	19.576	72.580 97.641	1.00 19.81

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ATOM	12105	CB '	VAL I	0 2	279	21.	126	72.	501	97.591	1.00	19.4	2		С
ATOM	12107	CG1				21.	637		653	96.153	1.00	19.7	7		С
ATOM	12111	CG2					748	73.	576	98.443	1.00	18.8	8		С
ATOM	12115		VAL			18.	982	71.	734	96.522	1.00	20.4	5		С
ATOM	12116		VAL			18.	659	72.	259	95.466	1.00				0
ATOM	12117		GLN			18.	835	70.	432	96.767	1.00	21.2	6	•	N
MOTA	12119		GLN				. 253	69.	518	95.793	1.00	21.8	9		С
MOTA	12121		GLN				454	68.	061	96.226	1.00	22.0	) 4		С
MOTA	12124		GLN			19	.872	67.	550	95.960	1.00	22.9	96		С
ATOM	12127		GLN				.046	66.	071	96.261	1.00	24.0	00		С
ATOM	12128		GLN				.010	65.	662	97.426	1.00	24.8	33		0
ATOM	12129		GLN				.235		266	95.213	1.00	23.6	52		N
ATOM	12132	C	GLN				.774	69.	799	95.496	1.00	22.3	33		С
MOTA	12133	ō	GLN				.340		632	94.367	1.00	22.9	96		0
ATOM	12134	N	GLU		281		.010		205	96.500	1.00	22.9	93		N
ATOM	12134	CA	GLU				.615		609	96.310	1.00				С
ATOM	12138	СВ	GLU				.922		.779	97.667	1.00				С
ATOM	12141	CG	GLU				.495		457	98.254	1.00				C
ATOM	12144	CD	GLU				.353		.463	99.760	1.00				С
ATOM	12145	OE1					.729			100.343	1.00				0
ATOM	12146		GLU				.861			100.359	1.00				Ō
ATOM	12147	C	GLU				.496		.921	95.542	1.00				C
ATOM	12148	Ö	GLU				.561		.114	94.762	1.00				0
ATOM	12149	N	ILE			15	.439		.823	95.774	1.00				N
ATOM	12151	CA	ILE				.439		.118	95.115	1.00				С
	12151	CB			282		.421		.055	95.838	1.00				С
MOTA	12155	CG1			282		.867		.383		1.00				С
ATOM	12158	CD1			282		.916		.591	98.309		23.			С
ATOM ATOM	12150	CG2			282		.662		.327	95.020		23.			С
	12162	C			282		.751		.985	93.600		24.			C
ATOM ATOM	12167	Ö			282 ·		.155		.682	92.787		24.			0
	12168	N			283		670		.097	93.234		24.		•	N
MOTA MOTA	12170	CA			283		5.956		.791	91.820	1.00	24.	66		С
MOTA	12172	CB			283		3.235		.912	91.676		24.			С
ATOM	12174		VAL				3.391		.373	90.260	1.00	24.	13		С
ATOM	12178		VAL				3.473		.705	92.072	1.00	23.	75		С
ATOM	12182	C			283		5.761		.083	91.163	1.00	25.	36		С
ATOM	12183	Ö			283		.421		.357	90.018	1.00	25.	75		0
MOTA	12184	N			284		5.122		.179	91.895	1.00	26.	12		N
MOTA	12186	CA			284		3.939		.481	91.407	1.00	26.	56		С
MOTA	12188	CB			284		3.477		.450	92.449	1.00	26.	. 78		С
ATOM	12191	CG			284		4.515		.305	92.682	1.00	27.	. 85		C
ATOM	12192		ASP				4.259		.409	93.538	1.00	30.	.00		0
MOTA					284		5.603	68	3.210	92.054	1.00	30.	. 37		0
MOTA					284		2.782	71	436	91.138	1.00	26.	. 95		C
MOTA					284		2.044	73	1.260	90.179	1.00	27.	. 02		0
ATOM					285		2.622		2.446			27.			N
MOTA					285		1.417		3.279	91.953	1.0	27.	. 94		С
ATOM					285		1.293		1.075	93.258	1.0	27.	.87		С
ATOM					285		0.176		5.093	93.245	1.0	0 29	.17		С
ATOM					285		8.851	. 7	4.690	93.166		0 29			С
ATOM					285		7.821		5.630	93.177	1.0	0 30	.27	•	С
ATOM			PHE	cr	285		8.110		6.986			0 30			С
ATOM					285		9.431		7.402		1.0	0 31	.11		С
ATOM					285		0.456		6.454			0 30			С
ATOM					285		1.439		4.241			0 28			С
ATOM					285		0.438		4.409			0 27			0
ATOM					286	ī	2.590		4.880			0 28			N
ATOM					286		2.730		5.968			0 27			С
MOTA					D 286		4.056		6.692			0 28			С
ATOM					D 286		2.596		5.475			0 28			С
								-							

ATON				D 286	12.360	76.262	87.255	1.00 28.87	,	
OTA				D 287	. 12.734	74.169				0
ATON AOTA				D 287	12.422	73.559	86.676		ŧ	С
ATON				D 287	12.979			1.00 27.51	,	C
ATON				D 287	14.495			1.00 27.18	I	· c
ATON				D 287	15.172	_		1.00 26.98	;	Ċ
ATON			TVC	D 287 D 287	16.398			1.00 26.86	j	č
ATOM				D 287	17.334			1.00 27.39	)	N
ATOM			DIS :	D 287	10.913		86.373		•	Ċ
ATOM		_	GIN	D 288	10.516 10.091			1.00 27.79	i	Ö
ATOM				D 288			_	1.00 27.27		N
ATOM			GLN	D 288	8.626 7.953			1.00 26.99	J.	,. <b>C</b>
ATOM	12255		GLN	D 288	8.863			1.00 27.01		С
ATOM	12258	CD		D 288	9.458			1.00 26.76		С
ATOM		OE1	GLN 1	D 288	9.535		88.723 87.493	1.00 25.89		С
ATOM		NE2	GLN I	D 288	9.897		89.528	1.00 25.79		0
ATOM		С	GLN I	288	8.043		87.257	1.00 25.05		И.
ATOM		0	GLN [	288	6.844	75.108	87.028	1.00 26.93 1.00 26.61		С
ATOM		N		289	8.877		87.517	1.00 26.61		0
ATOM		CA	VAL	289	8.426	77.352	87.510	1.00 27.06		· N
ATOM		CB	VAL [	289	9.379		88.303	1.00 27.10		C
ATOM		CG1	VAL [	289	8.891	79.799	88.205	1.00 27.25		C
ATOM ATOM			VAL I	289	9.470	77.922	89.763	1.00 26.81		C
ATOM		C	VAL	289	8.328	77.764	86.051	1.00 27.19	•	Ċ
ATOM		0	VAL [		9.332	77.715	85.335	1.00 27.05		Ö
ATOM		'N CA		290	7.126	78.142	85.605	1.00 27.38		Ŋ
ATOM		CB	PRO E	290	6.897	78.447	84.183	1.00 27.53		Ĉ
ATOM		CG	PRO D	290	5.381	78.718	84.093	1.00 27.35		č
ATOM		CD	PRO D	290	4.873	78.829	85.482	1.00 27.65		Č
ATOM		C	PRO D		5.898	78.282	86.415	1.00 27.30	•	Č.
ATOM	12294	ŏ	PRO E	290.	7.699	79.645	83.668	1.00 27.65		C
ATOM	12295	N	GLY D		7.530 8.566	80.781	84.151	1.00 27.72		0
ATOM	12297	CA	GLY D	291	9.396	79.374 80.402	82.686	1.00 27.90		N
ATOM	12300	С	GLY D	291	10.813	80.395	82.090			С
ATOM	12301	0	GLY D	291	11.585	81.323	82.622 82.353	1.00 28.44		С
MOTA	12302	N	PHE D	292	11.153	79.359	83.390	1.00 28.97 1.00 28.38		0
ATOM	12304	CA	PHE D		12.541	79.097	83.782	1.00 28.34		N
ATOM	12306	CB	PHE D		12.582	78.421	85.153	1.00 28.26		. C
ATOM	12309	CG	PHE D	292	13.969	78.304	85.731	1.00 28.51		C C
ATOM ATOM	12310	CD1	PHE D	292	14.585	79.403	86.346	1.00 29.08		C
ATOM	12312		PHE D		15.864	79.289	86.895	1.00 29.07		C
ATOM	12314 12316	CZ	PHE D	292	16.528	78.066	86.840	1.00 29.24		Ċ
ATOM	12318	CPS	PHE D	292	15.913	76.964	86.240	1.00 28.66		Č
ATOM	12320	CDZ	PHE D	292	14.644	77.089	85.698	1.00 28.29		Č
ATOM	12321	Ö	PHE D	292	13.219	78.216	82.691	1.00 28.38		č
ATOM	12322	N	LEU D	203	14.393	78.434	82.310	1.00 28.41		. <b>O</b>
ATOM	12324	CA	LEU D	293	12.476	77.232	82.184	1.00 28.18		N
MOTA	12326	CB	LEU D	293	12.965 12.044	76.387	81.080	1.00 28.35		С
MOTA	12329	CG	LEU D	293	11.584	75.182	80.835		-	С
ATOM	12331	CD1	LEU D	293	10.516	74.346 73.358	82.039	1.00 28.44		C,
MOTA	12335	CD2	LEU D	293	12.746	73.629	81.587 82.737	1.00 27.76		C
ATOM	12339	С	LEU D	293	13.079	77.204	79.787	1.00 28.24		C
ATOM	12340	0	LEU D	293	13.997	77.010	78.991	1.00 28.33		C
ATOM	12341	N	GLN D	294	12.144	78.141	79.618	1.00 28.19 1.00 28.46	•	.0
ATOM	12343		GLN D	294	12.107	79.057	78.475	1.00 28.46		N
ATOM	12345	CB	GLN D		10.831	79.920	78.570	1.00 28.18		C
ATOM	12348	CG	GLN D	294	10.466	80.703	77.276	1.00 27.59		C
MOTA	12351	CD	GLN D	294	10.260	82.221	77.500	1.00 27.61		· C
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ATOM	12352	OE1	GLN	D	294	9.567	82.632	78.443	1.00 27.74	0
ATOM	12353		GLN	D	294	10.861	83.053	76.639	1.00 26.90	N
ATOM	12356	С	GLN			13.353	79.970	78.391	1.00 28.23	С
MOTA	12357	0	GLN			13.645	80.540	77.318	1.00 28.13	0
ATOM	12358	N	LEU			14.060	80.109	79.540	1.00 28.25	N
ATOM	12360	CA	LEU			15.302	80.897	79.636	1.00 28.11	C
MOTA	12362	CB	LEU			15.630	81.226	81.121	1.00 28.04	С
ATOM	12365	CG	LEU			15.554	82.709	81.532	1.00 28.57	С
MOTA	12367		LEU			15.640	82.876	83.056	1.00 28.80	С
MOTA	12371		LEU			16.640	83.533	80.833	1.00 28.63	С
ATOM	12375	C	LEU			16.495	80.163	78.975	1.00 27.70	С
MOTA	12376	0	LEU			16.357	79.018	78.529	1.00 27.52	0
ATOM	12377	N	GLY			17.653	80.835	78.927	1.00 27.22	
ATOM	12379	CA	GLY			18.927	80.182		1.00 26.39	С
ATOM	12382	C	GLY			19.314	79.225	79.784	1.00 26.06	С
MOTA	12383	0	GLY			18.913	79.434	80.958	1.00 25.82	0
ATOM	12384	N	ARG			20.097	78.188	79.461	1.00 25.25	N
ATOM	12386	CA	ARG			20.495	77.161	80.443	1.00 24.86	С
ATOM	12388	CB	ARG			20.919	75.865	79.734	1.00 24.84	С
ATOM	12391	CG	ARG			20.364	74.576		1.00 24.74	С
ATOM ATOM	12394	CD	ARG			20.206	73.445	79.331	1.00 24.92	С
	12397	NE	ARG			21.310	73.414	78.361	1.00 24.99	N
ATOM ATOM	12399	CZ	ARG			21.184	73.382	77.030	1.00 25.02	С
MOTA	12400 12403		ARG			19.992	73.368	76.439	1.00 25.26	N
ATOM	12405	C	ARG ARG			22.277	73.358	76.274	1.00 25.43	N
ATOM	12407	0			297	21.628 21.660	77.648	81.360	1.00 24.55	C
ATOM	12407	N			298	22.557	77.313 78.433	82.548	1.00 24.58	0
ATOM	12410	CA			298	23.584	79.090	80.812 81.631	1.00 24.01	N
ATOM	12412	CB			298	24.625	79.757	80.737	1.00 23.59 1.00 23.52	C
ATOM	12415	CG			298	25.440	78.774	79.907	1.00 23.32	C
ATOM	12418	CD			298	26.123	79.421	78.714	1.00 23.01	C
ATOM	12419		GLU			26.009	80.652	78.552	1.00 22.35	0
ATOM	12420		GLU			26.781	78.698	77.936	1.00 22.55	o
ATOM	12421	C			298	22.934	80.134	82.551	1.00 23.51	Č
ATOM	12422	ŏ			298	23.381	80.375	83.704	1.00 23.44	Ö
ATOM	12423	N			299	21.862	80.740	82.036	1.00 23.15	N
ATOM	12425	CA			299	21.087	81.711	82.789	1.00 23.01	Ĉ
MOTA	12427	СВ			299	20.078	82.417	81.860	1.00 22.83	č
MOTA	12430	CG			299	20.717	83.756	81.142	1.00 22.93	Č
ATOM	12431	OD1	ASP	D	299	21.119	84.501	82.342	1.00 24.43	ō
MOTA	12432	OD2	ASP	D	299	20.873	84.135	79.437	1.00 21.52	0
ATOM	12433	С	ASP	D	299	20.400	81.101	84.024	1.00 22.79	С
ATOM	12434	0	ASP	D	299	20.202	81.793	85.039	1.00 23.01	0
MOTA	12435	N	GLN	D	300	20.054	79.811	83.940	1.00 22.49	N
ATOM	12437	CA			300	19.496	79.076	85.083	1.00 22.30	С
MOTA	12439	CB			300	18.956	77.720	84.632	1.00 22.53	С
MOTA	12442	CG			300	17.777	77.794	83.684	1.00 22.81	С
MOTA	12445	CD			300	17.348	76.352	83.232	1.00 25.00	С
ATOM	12446	OE1			300	16.161	76.074	82.932	1.00 27.61	0
MOTA	12447	NE2			300	18.313	75.420	83.157	1.00 25.87	N
ATOM	12450	C			300	20.536	78.854	86.178	1.00 21.65	C
ATOM	12451	0			300	20.199	78.809	87.344	1.00 21.44	0
ATOM	12452	N			301	21.798	78.693	85.784	1.00 21.29	N
MOTA	12454	CA			301	22.893	78.486	86.741	1.00 20.83	C
MOTA	12456	CB			301	24.200	78.063	86.008	1.00 20.65	C
ATOM	12458		ILE			23.997	76.768	85.199	1.00 20.83	C
ATOM ATOM	12461 12465		ILE			25.057	76.532	84.117	1.00 20.59	C
ATOM	12465	CGZ	ILE			25.344	77.879	87.008	1.00 20.52	C
ATOM	12470	0			301 301	23.169	79.726	87.656	1.00 20.35	C
	15310		تندب			23.414	79.554	88.840	1.00 19.89	0
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	ATOM	12471	N	AT.A I	302		23.153	00 054	05 000		
	ATOM	12473	CA		302		23.133		87.093	1.00 20.19	
	ATOM	12475	CB		302			82.168	87.805	1.00 19.63	
	ATOM	12479	C		302		23.850	83.284	86.808	1.00 20.06	•
	ATOM	12480	ŏ		302		22.517	82.597	88.812	1.00 20.17	
	ATOM	12481	N				22.805	83.014	89.994	1.00 19.10	
	ATOM	12483			303		21.260	82.490	88.324	1.00 19.99	
	ATOM		CA		303		20.130	82.780	89.160	1.00 19.26	
		12485	CB		303		18.812	82.633	88.388	1.00 19.41	•
	ATOM	12488	.CG		303		18.558	83.676	87.275	1.00 19.77	
	ATOM	12490		LEU I			17.155	83.525	86.665	1.00 19.43	
	ATOM	12494		LEU			18.770	85.100	87.802	1.00 19.37	
	ATOM	12498	С		303		20.165	81.826	90.334	1.00 19.62	
	MOTA	12499	0	LEU [			19.912	82.255	91.474	1.00 19.24	
	ATOM	12500	N		304		20.491	80.549	90.088	1.00 19.36	
	MOTA	12502	CA		304		20.432	79.533	91.158	1.00 19.40	
	MOTA	12504	CB		304		20.355	78.109	90.596	1.00 19.64	
	MOTA	12507	CG	LEU [	304		18.940	77.536	90.438	1.00 20.03	
	ATOM	12509	CD1	LEU D	304		18.427	77.048	91.768	1.00 20.03	
	ATOM	. 12513	CD2	LEU D	304		17.963	78.561	89.857	1.00 20.21	
	ATOM	12517	С	LEU D	304		21.592	79.660	92.121	1.00 20.21	
	ATOM	12518	0		304		21.411	79.508	93.320		
	ATOM	12519	N	LYS D			22.771	79.978	91.601	1.00 19.22	
	ATOM	12521	CA	LYS D			23.942	80.227	92.449	1.00 19.09	
	ATOM	12523	CB	LYS D			25.210	80.469	91.609	1.00 19.09	
	ATOM	12526	CG	LYS D			26.286	79.415	91.609	1.00 19.03	
	ATOM	12529	CD	LYS D			27.371		91.827	1.00 19.39	
	ATOM	12532	CE	LYS D		•	28.747	79.478 79.098	90.774	1.00 19.76	
	MOTA	12535	NZ	LYS D			29.539		91.342	1.00 20.24	
	ATOM	12539	C	LYS D	305		23.718	78.242	90.389	1.00 18.52	
	MOTA	12540	ō	LYS D			24.157	81.390	93.436	1.00 18.96	
	ATOM	12541	Ň	ALA D			23.045	81.307	94.579	1.00 18.44	
	MOTA	12543	CA	ALA D			22.747	82.459	93.001	1.00 18.73	
	ATOM	12545	CB	ALA D			22.747	83.600	93.900	1.00 19.18	
	ATOM	12549	C	ALA D			21.452	84.906	93.108	1.00 19.22	
	ATOM	12550	ŏ	ALA D			21.432	83.437	94.724	1.00 18.51	
	ATOM	12551	N	SER D			20.507	83.950	95.826		
	ATOM	12553	CA	SER D				82.668	94.197	1.00 18.35	
	ATOM	12555	CB	SER D			19.182	82.506	94.776	1.00 17.97	
	ATOM	12558	OG	SER D			18.174 16.940	82.212		1.00 17.87	
	MOTA	12560	C	SER D				82.838	93.933	1.00 19.67	
	ATOM	12561	Ö	SER D			19.044	81.407	95.835	1.00 17.63	
	ATOM	12562	Ň	THR D			18.158	81.512	96.717	1.00 17.83	
	ATOM	12564	CA	THR D			19.881	80.364	95.764	1.00 16.65	
	ATOM	12566	CB	THR D			19.637	79.138	96.530	1.00 15.86	
	MOTA	12568		THR D			20.696	78.051	96.243	1.00 16.18	
	ATOM	12570		THR D			20.625	77.615	94.870	1.00 14.34	
	ATOM	12574	C	THR D			20.400	76.778	97.078	1.00 15.13	
	ATOM	12575	ŏ	THR D			19.590	79.414	98.026	1.00 15.93	
	ATOM	12576	N	ILE D	200		18.659	78.989	98.700	1.00 16.03	
	ATOM	12578	CA				20.586	80.136	98.531	1.00 15.72	
	ATOM	12580	CB	ILE D	309		20.639	80.508	99.940	1.00 15.67	
	ATOM	12582					21.986	81.201		1.00 15.54	
	ATOM	.12585	CG1		309		22.150	81.320	101.835	1.00 16.29	
	ATOM	12589	CD1	ILE D	309		22.250	79.976		1.00 17.20	
	ATOM	12593		ILE D			22.080	82.580	99.689	1.00 15.04	
	ATOM		C	ILE D			19.447		100.337	1.00 15.85	
	ATOM	12594	0	ILE D			18.935	81.268	101.436	1.00 15.28	
	ATOM	12595	N	GLU D			19.000	82.252	99.445	1.00 16.15	
	ATOM	12597	CA	GLU D	310		17.871	83.116	99.775	1.00 16.39	
	ATOM	12599	CB	GLU D	310		17.709	84.213	98.740	1.00 16.24	
	ATOM	12602	CG	GLU D	310		18.863	85.197	98.770	1.00 16.79	
	TT OIL	12605	CD	GLU D	310		18.715	86.298	97.733	1.00 19.76	
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ATOM	12606	OE1	GLU I	310	17.562		.321	1.00 20.4	43
ATOM	12607		GLU I	310	19.752		.318	1.00 21.9	53
ATOM ATOM	12608 12609	C		310	16.581	82.319 99		1.00 16.0	
ATOM	12610	O N		310	15.795	82.597 100		1.00 16.	
ATOM	12612	CA		0 311 0 311	16.383			1.00 16.8	
ATOM	12614	CB		D 311	15.196			1.00 16.4	
ATOM	12616		ILE	D 311	15.024 14.906			1.00 16.3	
ATOM	12619	CD1	ILE	0 311	15.328			1.00 17.9	
ATOM	12623	CG2		311	13.786			1.00 18.8	
ATOM	12627	C		D 311	15.282	79.505 100		1.00 15.4	11
ATOM	12628	ō		D 311	14.278	79.180 100		1.00 16.2	
MOTA	12629	N	MET	312	16.487	79.047 100		1.00 16.3 1.00 16.6	
ATOM	12631	CA		312	16.723	78.240 101		1.00 16.8	
ATOM	12633	CB		312	18.201	77.871 101		1.00 17.	
MOTA	12636	CG		312	18.607	76.768 101		1.00 18.4	
MOTA	12639	SD		312	20.289	76.170 101		1.00 22.2	20
MOTA	12640	CE		312	20.250	75.803 103	.019	1.00 18.6	51
ATOM	12644	C		312	16.317	79.033 103	.068	1.00 16.0	
ATOM	12645	0	MET I	312	15.593	78.551 103	.911	1.00 14.9	
MOTA	12646	N	LEU	313		80.280 103	.139	1.00 16.6	58
MOTA	12648	CA		313	16.365	81.180 104		1.00 17.0	14
ATOM ATOM	12650 12653	CB		313	17.053	82.525 104		1.00 16.9	
MOTA	12655	CG	LEU I	313	18.547			1.00 17.7	
MOTA	12659		LEU I		19.208	83.823 103		1.00 18.3	
MOTA	12663	C		313	18.804 14.857	82.280 105		1.00 19.9	
ATOM	12664	ŏ		313	14.275	81.362 104 81.284 105		1.00 16.8	
ATOM	12665	Ň		314	14.225	81.577 103		1.00 17.5	
MOTA	12667	CA		314	12.757			1.00 17.1 1.00 17.6	
MOTA	12669	CB	LEU I	314	12.306	81.977 101		1.00 17.6	
MOTA	12672	CG	LEU I	314	11.507	83.203 101		1.00 17.2	
MOTA	12674	CD1	LEU I	314	11.771	84.414 102		1.00 17.2	
MOTA	12678	CD2	LEU I	314	11.791	83.517 99		1.00 18.1	
MOTA	12682	C	LEU I	314	12.072	80.418 103		1.00 18.0	
ATOM	12683	0		314		80.498 104	.351 1	1.00 17.7	
ATOM	12684	N		315	12.580	79.244 103	.217	l.00 19.1	
ATOM ATOM	12686	CA	GLU I	315		77.967 103		L.00 19.8	
MOTA	12688 12691	CB CG		315		76.794 102		L.00 20.5	
ATOM	12694	CD	CIU E	315	11.828	76.749 101		1.00 24.0	
ATOM	12695		GLU I	315	10.377 10.126	76.299 101		1.00 28.6	
ATOM	12696	OE2	GLU I	315	9.490	75.141 101		1.00 29.9	
MOTA	12697	C	GLU I	315	12.244	77.112 101. 77.696 105		l.00 32.5 l.00 18.9	
MOTA	12698	0		315	11.438		804 1	00 10.9	14
MOTA	12699	N	THR D		13.377	78.171 105	.004 1 588 1	1.00 18.3	20
ATOM	12701	CA	THR D		13.721	78.126 107		1.00 19.2	. U . B
MOTA	12703	CB	THR D	316	15.175	78.587 107		.00 19.7	7
MOTA	12705	OG1	THR D	316	16.031	77.580 106		.00 18.0	
ATOM	12707		THR D		15.596	78.680 108.	.618 1	00 19.7	
ATOM	12711	C	THR D		12.750	78.964 107.	.855 1	00 19.1	
MOTA	12712	0	THR D		12.172	78.466 108.	.816 1	00 18.4	
MOTA MOTA	12713 12715	N	ALA D		12.519	80.216 107.	.457 1	.00 19.5	5
ATOM	12717	CA CB	ALA D		11.505	81.056 108.		.00 19.2	6
MOTA	12721	СВ	ALA D		11.361	82.387 107.		00 19.5	2
MOTA	12722	Ö	ALA D		10.144	80.373 108.		00 19.3	
MOTA	12723	N	ARG D		9.431 9.769	80.420 109.		.00 19.7	
ATOM	12725	CA	ARG D		8.474	79.737 107. 79.086 107.		.00 18.8	
MOTA	12727	CB	ARG D		8.355	78.550 105.		.00 18.7	
MOTA	12730	CG	ARG D		7.035	78.003 105.		.00 19.4 .00 21.6	0
								21.6	**

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MOTA	12733	CD	ARG D	318	7.104	77 675	100 715	
ATOM	12736	NE	ARG I		5.902	77.675		1.00 23.82
ATOM	12738	CZ	ARG D		5.640	77.083		1.00 26.12
ATOM	12739	NH1			6.506		101.869	1.00 29.28
ATOM	12742	NH2			4.522	77.561		1.00 30.16
ATOM	12745	C	ARG D			76.474	101.415	1.00 30.77
ATOM	12746	ŏ	ARG D		8.358 7.266	77.954	108.039	1.00 18.09
ATOM	12747	N	ARG D		7.200	77.599	108.475	1.00 16.87
ATOM	12749	CA	ARG D		9.507	77.404	108.429	1.00 17.86
ATOM	12751	CB	ARG D		9.566	76.289	109.364	1.00 18.17
ATOM	12754	CG	ARG D		10.649	75.314	108.919	1.00 18.45
ATOM	12757	CD	ARG D		10.297	74.581	107.673	1.00 19.65
ATOM	12760		ARG D		11.499	74.167	106.866	1.00 23.75
ATOM	12762	CZ	ARG D		11.108	73.800	105.512	1.00 26.57
ATOM	12763	NH1			10.545	/2.656	105.185	1.00 27.80
ATOM	12766		ARG D	319	10.311	71.720	106.116	1.00 29.91
ATOM	12769	C	ARG D		10.221	72.434	103.915	1.00 28.11
ATOM	12770	ŏ	ARG D		9.817	76.724	110.810	1.00 17.72
ATOM	12771	N	TYR D	330	9.992	75.879	111.699	1.00 17.32
ATOM	12773	CA	TYR D	320	9.826	78.033	111.018	1.00 17.56
ATOM	12775	CB	TYR D		10.042	78.645	112.320	1.00 17.83
ATOM	12778	CG	TYR D		10.654	80.049	112.176	1.00 17.57
MOTA	12779	CD1			10.784	80.749	113.519	1.00 18.20
ATOM	12781	CE1			11.774	80.365	114.439	1.00 15.63
ATOM	12783	CZ	TYR D		11.861 10.978	80.966	115.671	1.00 15.30
ATOM	12784	OH	TYR D		11.058	81.978	116.006	1.00 16.00
MOTA	12786	CE2		320	9.993	82.594	117.233	1.00 14.76
ATOM	12788	CD2			9.903	82.375	115.115	1.00 17.33
MOTA	12790	C	TYR D		8.709	81.760	113.884	1.00 17.19
MOTA	12791	ŏ	TYR D			78.737	113.041	1.00 17.54
ATOM	12792	N	ASN D	321	7.737 8.672	79.266	112.524	1.00 17.94
MOTA	12794	CA	ASN D		7.494	70.219	114.244	1.00 17.45
MOTA	12796	СВ	ASN D		7.158	76.300	115.089	1.00 17.31
MOTA	12799	CG	ASN D		6.001		115.569	1.00 17.19
MOTA	12800		ASN D	321	5.298		116.523 116.718	1.00 16.67
ATOM	12801	ND2			5.789	75 710	117.120	1.00 15.79
ATOM	12804	С	ASN D		7.801	79.192	117.120	1.00 13.63
ATOM	12805	0	ASN D		8.603		117.103	1.00 17.26
ATOM	12806	N	HIS D	322	7.166	80 350	116.364	1.00 16.90
ATOM	12808	CA	HIS D		7.507	81.321	117.422	1.00 18.26
ATOM	12810	CB	HIS D	322	6.952		117.149	1.00 18.58
ATOM	12813	CG	HIS D	322	7.573		118.016	1.00 18.38
MOTA	12814	ND1		322	8.931		118.042	1.00 18.54 1.00 14.77
ATOM	12816	CE1	HIS D	322	9.203		118.890	
ATOM	12818	NE2	HIS D	322	8.078	85.310	119.460	1.00 19.42 1.00 19.88
MOTA	12820	CD2	HIS D	322	7.039	84.585	118.927	1.00 19.88
ATOM	12822	С	HIS D	322	7.079		118.828	1.00 18.75
ATOM	12823	0	HIS D		7.558		119.809	1.00 19.14
MOTA	12824	N	GLU D	323	6.177	79.993	118.917	1.00 19.70
ATOM	12826	CA	GLU D	323	5.685		120.184	1.00 19.44
ATOM	12828	CB	GLU D	323	4.369		119.928	1.00 19.41
ATOM	12831	CG	GLU D	323	3.844	77.968	121.091	1.00 19.69
ATOM	12834	CD	GLU D	323	2.563	77.236	120.744	1.00 23.22
MOTA	12835	OE1	GLU D	323	2.139		119.548	1.00 27.15
ATOM	12836	OE2	GLU D	323	1.996		121.673	1.00 27.89
ATOM	12837	С	GLU D	323	6.752	78.637	120.882	1.00 30.38
MOTA	12838	0	GLU D	323	6.805		122.096	1.00 18.75
ATOM	12839	N	THR D	324	7.590	77.956	120.106	1.00 18.33
MOTA	12841	CA	THR D	324	8.732	77.183	120.635	1.00 18.80
ATOM	12843	СВ	THR D	324	8.750	75.802	119.996	1.00 17.31
MOTA	12845	OG1	THR D	324	8.911	75.915	118.574	1.00 17.11
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	ATOM	12847	CG2 THR D 324	7.400	75.115 120.160	1.00 18.66	С
	ATOM	12851	C THR D 324	10.097	77.870 120.380	1.00 17.80	С
	ATOM	12852	O THR D 324	11.111	77.479 120.948	1.00 17.48	0
	MOTA	12853	N GLU D 325	10.090	78.914 119.555	1.00 17.57	N
	ATOM	12855	CA GLU D 325	11.300	79.501 118.966	1.00 17.83	С
	ATOM	12857	CB GLU D 325	12.027	80.386 119.981	1.00 17.92	С
	ATOM	12860	CG GLU D 325	11.079	81.131 120.904	1.00 18.28	С
	ATOM	12863	CD GLU D 325	11.738	82.251 121.674	1.00 19.69	C
	MOTA	12864	OE1 GLU D 325	12.984	82.272 121.804	1.00 20.99	0
	MOTA	12865	OE2 GLU D 325	10.994	83.139 122.121	1.00 21.52	0
	MOTA	12866	C GLU D 325	12.240	78.474 118.319	1.00 18.09	C
	ATOM	12867	O GLU D 325	13.469	78.631 118.335	1.00 18.16	0
	MOTA	12868	N CYS D 326	11.647	77.437 117.720	1.00 18.28	N C
	MOTA	12870	CA CYS D 326	12.401	76.410 117.007	1.00 17.91 1.00 17.92	C
	ATOM	12872	CB CYS D 326	12.150	75.051 117.624 74.925 119.344	1.00 17.92	s
	ATOM	12875	SG CYS D 326	12.649	76.338 115.519	1.00 13.22	c
	MOTA	12876	C CYS D 326	12.054 10.944	76.665 115.101	1.00 17.50	ŏ
	MOTA	12877	O CYS D 326 N ILE D 327	13.034	75.888 114.742	1.00 17.75	. N
	MOTA	12878			75.613 113.323	1.00 17.34	Ċ
	MOTA MOTA	12880 12882	CA ILE D 327 CB ILE D 327		76.136 112.612	1.00 17.02	Ċ
	ATOM	12884	CG1 ILE D 327		77.628 112.899	1.00 17.08	С
	ATOM	12887	CD1 ILE D 327		78.220 112.465	1.00 17.70	С
	ATOM	12891	CG2 ILE D 327		75.866 111.136		Ċ
	MOTA	12895	C ILE D 327		74.097 113.070		С
	MOTA	12896	O ILE D 327	13.614	73.329 113.483		0
	MOTA	12897	N THR D 328		73.675 112.392		N
	MOTA	12899	CA THR D 328		72.276 112.073		C
	MOTA	12901	CB THR D 328		71.848 112.382		o
	MOTA	12903	OG1 THR D 328		71.755 113.810		C
	MOTA	12905	CG2 THR D 328		70.421 111.928 71.941 110.625		c
	MOTA	12909	C THR D 328		72.336 109.689		Ö
	ATOM	12910	O THR D 328		71.215 110.464		N
	MOTA	12911	N PHE D 329				Ĉ
	ATOM ATOM	12913 12915					С
	MOTA	12918	CG PHE D 32				C
	ATOM					1.00 16.46	С
	ATOM				73.366 110.407		C
	ATOM			9 16.793			000
	MOTA		CE2 PHE D 32				C
	ATOM	12927					C
	ATOM		C PHE D 32				0
	MOTA			9 12.749	68.487 109.939		Ŋ
	ATOM						C
	MOTA						č
	ATOM						, c
	ATOM						Ċ
	ATOM ATOM						С
	ATOM						C
	ATOM						0
	ATOM				66.262 108.90	5 1.00 21.46	N
	ATOM			1 9.118		9 1.00 22.37	C
	ATOM		4 CB LYS D 33	1 8.794			C
	ATOM	1 1295					C
	ATOM	1 1296					C
	ATOM						N
	ATOM						C
	ATOM						0
	OTA	4 1297	1 O LYS D 3	8.59	6 67.404 111.55	0 1.00 24.13	J
				···			

MOTA	12972	N	ASP	D 3	332	10.292	65.945 11	11 707	1 00	04 04			
MOTA	12974	CA	ASP			10.420	66.028 11	13 263	1.00	24.04			N
MOTA	12976	СВ	ASP			10.373	64.604 11	13 075		24.26			С
MOTA	12979	CG	ASP			9.113	63.836 11	13 673		24.72			. C
ATOM	12980	OD1	ASP			8.089	63.993 11	14 227		26.74			C
ATOM	·12981		ASP			9.063	63.013 11			30.75	•		. 0
ATOM	12982	C	ASP			11.735				29.44			0
ATOM	12983	Ö	ASP			11.973	66.653 11 66.685 11	13.749		23.27			С
ATOM	12984	N	PHE			12.612	67 070 11	14.952		23.21	•		0
ATOM	12986	CA	PHE			13.938	67.078 11 67.558 11	12.842		22.47			N
ATOM	12988	СВ	PHE			14.982	67 331 11	13.24/		21.94			С
ATOM	12991	ĊĠ	PHE			15.239	67.321 11	12.140		21.90			C
ATOM	12992		PHE			15.286	65.857 11			21.19			· C
ATOM	12994	CE1	PHE	ם פ	333	15.531	65.397 11	10.526		22.30			
ATOM	12996	CZ	PHE			15.736	64.027 11	10.248	1.00	21.21			. C
ATOM	12998		PHE	D 3	333	15.705	63.149 11	11.2/9	1.00	20.04			·C
ATOM	13000	CD2	PHE	ח פ	333	15.456	63.600 11	12.586	1.00	20.23			С
ATOM	13002	C	PHE			13.851	64.941 11	2.860	1.00	21.17			С
ATOM	13003	ŏ	PHE			13.855	69.032 11	13.65/	1.00	21.78			С
ATOM	13004	N	THR			13.746	69.928 11	2.81/	1.00	21.60		-	0
MOTA	13006	CA	THR			13.746	69.264 11	4.966	1.00	21.52			N
MOTA	13008	CB	THR			12.076	70.566 11	5.523	1.00	21.15			С
ATOM	13010	OG1				11.013	70.373 11	.6.346	1.00	21.06			С
MOTA	13012	CG2				11.601	70.024 11	.5.458	1.00	22.39			0
ATOM	13016	C	THR			14.473	71.667 11	.7.000		20.50			С
ATOM	13017	ŏ	THR			14.473	71.119 11	.6.391	1.00	20.64			С
ATOM	13018	N	TYR			14.993	70.410 11	.7.256	1.00	21.61			0
ATOM	13020	CA	TYR				72.382 11	.6.1/4	1.00	19.47		•	N
ATOM	13022	CB	TYR			16.045 17.151	72.956 11	.6./09	1.00	18.85		•	
ATOM	13025	CG	TYR			17.131	72.911 11	5.633		18.58			С
ATOM	13026		TYR			17.247	71.498 11	5.222		19.49			C
ATOM	13028	CE1	TYR	ם א	135	17.492	71.067 11	3.926	1.00	18.92			С
ATOM	13030	CZ	TYR			17.492	69.744 11	3.583	1.00	20.64			· C
ATOM	13031	OH	TYR			18.156	68.850 11	4.54/	1.00	18.93			С
ATOM	13033		TYR			18.106	67.535 11	4.226		22.78	•		Ο.
ATOM	13035	CD2	TYR	D 3	135	17.863	69.255 11	5.831		19.01			С
ATOM	13037	C	TYR			15.864	70.559 11	6.1/3	1.00	20.56			С
ATOM	13038	ŏ	TYR			15.299	74.383 11	7.184	1.00	17.90			С
ATOM	13039	N	SER			16.361	75.200 11	6.469		17.11			0
ATOM	13041	CA	SER			16.422	74.656 11	8.388		17.04			N
ATOM	13043	CB	SER			16.370	76.008 11	8.966	1.00	16.74			С
ATOM	13046	ŌĠ	SER	פמ	36	17.539	75.896 12	0.488		16.83			C
ATOM	13048	Ċ	SER			17.738	75.217 12 76.715 11	0.966	1.00	15.76			0
ATOM	13049	Ö	SER			18.640	76.715 11	8.596	1.00	16.17			С
ATOM	13050	N	LYS			17.841	78.005 11	0.009	1.00	14.89			0
ATOM	13052	CA	LYS		<b>-</b>	19.128	78.708 11	0.092	1.00	16.72			N
ATOM	13054	СВ	LYS			19.050	80.027 11	0.020		17.06			C.
MOTA	13057	CG	LYS			18.776	81.191 11	9.376		16.51			С
ATOM	13060	CD	LYS			18.930	82.497 11	0.072		15.93			C
ATOM	13063	CE	LYS			18.332	83.573 11	9.394		14.66			С
ATOM	13066	NZ	LYS	D 3	37	18.517	84.917 11	0.344		15.20			С
MOTA	13070	C	LYS	D 3	37.	20.270	77.875 11	9.049		10.93			N
MOTA	13071	O	LYS			21.382	77.794 11	9.438		17.88			С
MOTA	13072	N	ASP			19.980	77.245 12	0.3U3 0.5C7		17.72			0
MOTA	13074	CA	ASP			21.020	76.548 12	0.30/ 1 370		18.12			N
MOTA	13076	СВ	ASP	D 3	38	20.553	76.052 12	1.4/U		18.82			C
MOTA	13079	CG	ASP			21.628	76.157 12	2.034 2.620		19.01		٠	C
ATOM	13080		ASP	D 3	38	22.111	75.106 12	1 00E		20.94			C
MOTA	13081	OD2	ASP	D 3	38	22.092	77.274 12			22.65			0
ATOM	13082	С	ASP	D 3	38	21.599	75.405 120	0.330 0.463		24.02			0
MOTA	13083	O	ASP	D 3	38	22.796	75.212 120			18.23			C
				٠.	- <del>-</del>			0.4/0	T.00	18.26			.0

ATOM 13084 N ASF D 339 20.757 74.662 119.756 1.00 18.03 N ATOM 13086 CA ASF D 339 21.239 73.572 118.897 1.00 17.64 C ATOM 13088 CB ASF D 339 20.076 72.795 118.327 1.00 17.64 C ATOM 13092 OD1 ASF D 339 19.237 77.203 119.390 1.00 19.52 C ATOM 13093 OD2 ASF D 339 19.237 77.203 119.390 1.00 19.52 C ATOM 13093 OD2 ASF D 339 19.237 77.203 119.379 1.00 23.92 O ATOM 13095 O ASF D 339 22.117 74.056 117.758 1.00 16.92 C ATOM 13095 O ASF D 339 22.117 74.056 117.758 1.00 16.92 C ATOM 13095 O ASF D 339 22.117 74.056 117.758 1.00 16.92 C ATOM 13098 CA PHE D 340 21.819 75.233 117.222 1.00 16.53 O ATOM 13098 CA PHE D 340 21.819 75.233 117.222 1.00 16.53 O ATOM 13098 CA PHE D 340 21.819 75.233 117.222 1.00 16.53 C ATOM 13100 C PHE D 340 21.819 76.621 11.618 1.00 15.58 C ATOM 13100 C PHE D 340 21.919 76.621 11.618 1.00 15.58 C ATOM 13100 C PHE D 340 18.628 75.599 13.112 0.00 14.28 C ATOM 13101 C C PHE D 340 18.628 75.599 13.142 1.00 13.46 C ATOM 13110 C C PHE D 340 20.992 75.846 113.03 1.00 13.86 C ATOM 13110 C C PHE D 340 20.992 75.846 113.03 1.00 13.40 C ATOM 13111 C C PHE D 340 20.992 75.846 113.389 1.00 15.91 C ATOM 13111 C C PHE D 340 20.992 75.846 113.89 1.00 15.91 C ATOM 13116 N HIS D 341 24.111 76.712 117.834 1.00 15.91 C ATOM 13116 N HIS D 341 24.111 76.712 117.834 1.00 15.91 C ATOM 13116 N HIS D 341 24.111 76.712 117.834 1.00 16.63 N ATOM 13120 C B HIS D 341 25.386 77.143 118.384 1.00 15.91 C C ATOM 13120 C B HIS D 341 25.386 77.143 118.384 1.00 16.63 N ATOM 13120 C B HIS D 341 25.386 77.143 118.384 1.00 16.63 N ATOM 13120 C B HIS D 341 25.386 77.143 118.384 1.00 16.63 N ATOM 13120 C B HIS D 341 25.219 78.056 119.599 1.00 17.15 C ATOM 13120 C B HIS D 341 25.386 77.143 118.384 1.00 16.63 N ATOM 13120 C B HIS D 341 27.247 77.228 79.614 119.047 1.00 21.11 N ATOM 13120 C B HIS D 341 27.247 77.728 79.614 119.047 1.00 21.11 N ATOM 13120 C B HIS D 341 27.247 77.728 79.614 119.047 1.00 21.11 N ATOM 13130 C C HIS D 341 27.247 77.728 79.614 119.047 1.00 21.55 N ATOM 13130 C C HIS D 341 27.247 77.728 79.614 119.946 1.00 15.63 N A													
ATOM 13086 CA ASP D 339 21.239 73.572 118.897 1.00 17.64 C C ASP D 339 20.076 72.795 118.327 1.00 17.74 C C ASP D 339 19.237 72.795 118.327 1.00 17.74 C C ASP D 339 19.237 72.203 119.390 1.00 17.74 C C ASP D 339 19.237 72.203 119.390 1.00 17.74 C C ASP D 339 19.217 72.203 119.390 1.00 17.74 C C ASP D 339 19.217 72.203 119.390 1.00 12.13 O ATOM 13095 C ASP D 339 17.994 72.259 119.379 1.00 23.92 O ATOM 13095 C ASP D 339 22.117 74.056 117.758 1.00 16.92 C ATOM 13095 N PHE D 340 21.619 73.373 117.362 1.00 15.53 N ATOM 13096 C ASP D 339 23.059 73.373 117.362 1.00 15.53 N ATOM 13096 C ASP D 339 23.059 73.373 117.362 1.00 15.56 C ATOM 13100 C B PHE D 340 22.645 1.00 15.58 C ATOM 13100 C B PHE D 340 22.695 76.482 114.618 1.00 15.56 C ATOM 13103 C C PHE D 340 19.839 76.482 114.618 1.00 15.56 C ATOM 13103 C C PHE D 340 18.427 76.199 114.557 1.00 13.86 C ATOM 13105 C C PHE D 340 18.427 76.199 113.142 1.00 13.49 C ATOM 13110 C C PHE D 340 18.427 76.199 113.142 1.00 13.49 C ATOM 13111 C C PHE D 340 24.045 75.599 113.142 1.00 13.49 C ATOM 13112 C C PHE D 340 24.045 75.499 112.650 1.00 14.38 C ATOM 13112 C C PHE D 340 24.045 76.199 116.658 1.00 14.38 C ATOM 13115 O PHE D 340 24.045 76.199 116.658 1.00 16.50 ATOM 13116 C B PHE D 340 24.045 76.199 116.658 1.00 16.50 N ATOM 13116 C B PHE D 340 25.034 75.841 115.995 1.00 16.50 N ATOM 13116 C B PHE D 340 25.034 75.841 115.995 1.00 16.50 N ATOM 13116 C B PHE D 340 25.034 75.841 115.995 1.00 16.50 N ATOM 13116 C B PHE D 340 25.034 75.841 115.995 1.00 16.50 N ATOM 13116 C B PHE D 340 25.034 75.841 115.995 1.00 16.50 N ATOM 13116 C B PHE D 340 25.034 75.841 115.995 1.00 16.50 N ATOM 13120 C B HIS D 341 25.386 77.143 118.384 1.00 16.62 C ATOM 13130 C B PHE D 340 25.034 75.841 115.999 1.00 15.59 C ATOM 13131 N A B PHE D 340 25.034 75.841 115.999 1.00 15.50 N ATOM 13130 C B PHE D 340 25.034 75.841 115.999 1.00 15.50 N ATOM 13130 C B PHE D 340 25.034 75.841 115.999 1.00 15.50 N ATOM 13130 C B PHE D 340 25.034 75.841 115.999 1.00 15.50 N ATOM 13130 C B PHE D 340 25.03 PHE D 340 25.03 PHE D	ATOM	13084	N	ASP 1	D :	339	20.757	74.662	119.756	1.00	18.03		
ATOM 1308 CB ASP D 339 20.076 72.795 118.327 1.00 17.74 C ATOM 1309 CG ASP D 339 19.237 72.203 119.330 1.00 15.52 C ATOM 13092 ODI ASP D 339 19.237 72.203 119.330 1.00 13.52 C ATOM 13093 ODZ ASP D 339 17.994 72.259 119.379 1.00 23.92 O ATOM 13095 O ASP D 339 22.117 74.056 117.758 1.00 15.53 O ATOM 13096 N PHE D 340 21.619 75.233 117.322 1.00 16.92 C ATOM 13096 CA PHE D 340 22.664 75.743 117.360 1.00 15.53 O ATOM 13006 CB PHE D 340 22.664 75.743 116.153 1.00 16.21 C ATOM 13103 CG PHE D 340 20.819 76.452 114.618 1.00 15.86 C ATOM 13106 CE1 PHE D 340 19.556 76.601 115.103 1.00 16.21 C ATOM 13106 CE2 PHE D 340 19.556 76.601 115.103 1.00 16.26 C ATOM 13106 CE2 PHE D 340 19.556 76.601 115.103 1.00 14.56 C ATOM 13110 CE2 PHE D 340 19.556 76.601 115.103 1.00 14.56 C ATOM 13110 CE2 PHE D 340 19.854 75.593 112.432 1.00 16.37 ATOM 13110 CE2 PHE D 340 19.854 75.593 112.432 1.00 15.86 C ATOM 13110 CE2 PHE D 340 19.854 75.593 112.432 1.00 15.86 C ATOM 13112 CD2 PHE D 340 20.992 75.593 112.30 1.00 14.88 C ATOM 13112 CD2 PHE D 340 20.992 75.593 112.50 1.00 15.91 C ATOM 13113 C PHE D 340 20.992 75.593 112.40 1.00 15.86 C ATOM 13113 C PHE D 340 25.034 75.841 115.995 1.00 16.50 C ATOM 13116 C PHE D 340 25.034 75.841 115.995 1.00 16.62 C ATOM 13116 C PHE D 340 25.034 75.841 115.995 1.00 16.62 C ATOM 13116 C PHE D 340 25.034 75.841 115.995 1.00 16.63 N ATOM 13116 C PHE D 341 25.386 77.143 118.384 1.00 16.62 C ATOM 13116 C PHE D 341 25.386 77.143 118.384 1.00 16.62 C ATOM 13116 C PHE D 341 25.386 77.143 118.384 1.00 16.63 N ATOM 13116 N ALTER D 341 25.386 77.143 118.384 1.00 16.63 N ATOM 13130 CD2 HIS D 341 25.386 77.143 118.384 1.00 16.63 N ATOM 13130 CD2 HIS D 341 25.386 77.143 118.384 1.00 16.65 N ATOM 13130 CD2 HIS D 341 25.386 67.143 119.946 1.00 19.40 C ATOM 13131 N ARG D 342 25.507 72.687 119.946 1.00 19.117 C ATOM 13130 CD2 HIS D 341 25.386 07.018 119.946 1.00 19.117 C ATOM 13131 N ARG D 342 25.577 74.886 119.599 1.00 15.87 N ATOM 13130 CD2 HIS D 341 27.407 77.76 148 0119.505 1.00 15.87 N ATOM 13131 C ATOM 13130 CD2 HIS D 34			CA	ASP !	D :	339	21.239			1.00	17.64		
ATOM 13091 CG ASP D 339 19.237 72.203 119.390 1.00 19.52 C ATOM 13092 ODI ASP D 339 19.816 71.651 120.345 1.00 21.13 O ATOM 13094 C ASP D 339 12.817 74.056 117.758 1.00 21.13 O ATOM 13094 C ASP D 339 22.117 74.056 117.758 1.00 16.92 C ATOM 13095 O ASP D 339 22.117 74.056 117.758 1.00 16.92 C ATOM 13096 N PHE D 340 21.819 75.233 117.360 1.00 15.53 O ATOM 13096 N PHE D 340 21.819 75.233 117.222 1.00 16.37 N ATOM 13100 CB PHE D 340 22.664 75.743 116.153 1.00 16.21 C ATOM 13103 CG PHE D 340 21.919 76.888 115.419 1.00 15.56 C ATOM 13104 CD1 PHE D 340 19.556 76.608 115.419 1.00 15.56 C ATOM 13104 CD1 PHE D 340 19.556 76.608 115.103 1.00 14.28 C ATOM 13106 CE1 PHE D 340 19.556 76.608 115.103 1.00 14.28 C ATOM 13110 CC2 PHE D 340 19.556 76.601 115.103 1.00 14.28 C ATOM 13110 CC2 PHE D 340 19.596 75.599 113.142 1.00 13.86 C ATOM 13112 CD2 PHE D 340 20.992 75.846 113.389 1.00 16.12 C ATOM 13112 CD2 PHE D 340 20.992 75.846 113.389 1.00 15.91 C ATOM 13114 C PHE D 340 22.092 75.846 113.389 1.00 15.91 C ATOM 13116 N HTS D 341 25.034 75.841 115.995 1.00 16.50 O ATOM 13116 N HTS D 341 25.386 77.143 115.995 1.00 16.50 O ATOM 13116 C B HTS D 341 25.386 77.143 118.595 1.00 16.50 O ATOM 13126 CB HTS D 341 25.386 77.143 118.384 1.00 16.82 C ATOM 13126 CB HTS D 341 25.386 77.143 118.384 1.00 16.82 C ATOM 13126 CB HTS D 341 25.29 78.66 119.599 1.00 17.15 C ATOM 13130 CD2 HTS D 341 22.29 79.614 119.047 1.00 21.11 N ATOM 13131 C ATOM 13130 CD2 HTS D 341 22.29 79.636 119.599 1.00 17.15 C ATOM 13131 C ATOM 13130 CD2 HTS D 341 22.29 79.636 119.599 1.00 17.15 C ATOM 13131 C ATOM 13130 CD2 HTS D 341 22.29 79.636 119.599 1.00 17.15 C ATOM 13131 C ATOM 13130 CD2 HTS D 341 22.29 79.690 119.568 1.00 16.60 C ATOM 13131 C ATOM 13131 C ATOM 13130 CD2 HTS D 341 22.29 79.690 119.568 1.00 16.10 C C ATOM 13131 C ATOM 13130 CD2 HTS D 341 22.29 79.690 119.568 1.00 17.15 C C ATOM 13131 C ATOM 13130 CD2 HTS D 341 22.29 79.690 119.568 1.00 17.15 C C ATOM 13131 C ATOM 13130 CD2 HTS D 341 22.29 79.690 119.568 1.00 15.59 C ATOM 13131 C ATOM 13131 C ATOM 13131			CB	ASP	D :	339	20.076			1.00	17.74		
ATOM 13092 ODI ASP D 339. 19.816 71.651 120.345 1.00 21.13 O ATOM 13093 ODZ ASP D 339 17.994 72.259 119.379 1.00 23.92 O ATOM 13094 C ASP D 339 22.117 74.056 117.758 1.00 16.92 C ATOM 13095 O ASP D 339 22.107 74.056 117.758 1.00 16.92 C ATOM 13096 N PHE D 340 21.619 75.233 117.222 1.00 16.37 N ATOM 13008 CA PHE D 340 22.664 75.743 116.153 1.00 16.21 C ATOM 13103 CG PHE D 340 20.819 76.452 114.618 1.00 15.86 C ATOM 13104 CDI PHE D 340 19.536 76.601 115.103 1.00 16.28 C ATOM 13106 CE1 PHE D 340 19.536 76.601 115.103 1.00 14.28 C ATOM 13106 CE2 PHE D 340 19.47 76.189 114.357 1.00 13.49 C ATOM 13110 CE2 PHE D 340 19.894 75.423 112.650 1.00 14.28 C ATOM 13110 CE2 PHE D 340 24.045 76.199 113.142 1.00 13.49 C ATOM 13110 CE2 PHE D 340 24.045 76.199 113.142 1.00 13.49 C ATOM 13112 CD2 PHE D 340 24.045 76.109 116.658 1.00 16.59 C ATOM 13112 CD2 PHE D 340 24.045 76.109 116.658 1.00 16.59 C ATOM 13112 C D2 PHE D 340 24.045 76.109 116.658 1.00 16.12 C ATOM 13115 O PHE D 340 24.045 76.109 116.658 1.00 16.12 C ATOM 13116 N HTS D 341 24.111 76.712 117.834 1.00 16.63 N ATOM 13116 C A HTS D 341 24.111 76.712 117.834 1.00 16.63 N ATOM 13118 CA HTS D 341 25.219 78.056 119.599 1.00 17.15 C ATOM 13120 CB HTS D 341 25.219 78.056 119.599 1.00 17.15 C ATOM 13123 CG HTS D 341 25.219 78.056 119.599 1.00 17.15 C ATOM 13132 CB HTS D 341 27.128 80.105 119.611 1.00 22.20 C ATOM 13133 O HTS D 341 27.128 80.105 119.611 1.00 21.11 N ATOM 13132 CB HTS D 341 27.128 79.614 119.047 1.00 21.11 N ATOM 13136 CA ARG D 342 24.640 78.792 119.946 1.00 19.44 C ATOM 13131 CA ATOM 13130 CD2 HTS D 341 27.128 80.105 119.611 1.00 22.20 C ATOM 13131 CA ATOM 13130 CB ATOM 24.04 25.207 79.626 119.568 1.00 17.32 C ATOM 13131 CA ATOM 13130 CB ATOM 24.04 22.20 77.792 119.946 1.00 17.35 C ATOM 13131 CA ATOM 24.04 22.20 77.792 119.946 1.00 17.35 C ATOM 13131 CA ATOM 24.20 78.792 119.946 1.00 17.35 C ATOM 13136 CA ARG D 342 24.627 77.489 119.946 1.00 17.35 C ATOM 13136 CA ARG D 342 26.660 73.303 119.568 1.00 17.32 C ATOM 13131 CA ATOM 24.20 24.03 ATOM 24.20 25.20 ATOM 2			CG	ASP :	D :	339	19.237						
ATOM 13093 ODZ ASP D 339			OD1	ASP	D :	339.							
ATOM 13095 O ASP D 339			OD2	ASP	D :	339	17.994	72.259	119.379				
ATOM 13096 N PHE D 340 22.3059 73.373 117.360 1.00 15.53 N ATOM 13096 N PHE D 340 22.664 75.743 116.153 1.00 16.21 C ATOM 13100 CB PHE D 340 22.664 75.743 116.153 1.00 16.21 C ATOM 13103 CG PHE D 340 20.819 76.283 117.222 1.00 16.21 C ATOM 13104 CD1 PHE D 340 21.995 76.482 114.618 1.00 15.58 C ATOM 13104 CD1 PHE D 340 19.556 76.601 115.103 1.00 14.28 C ATOM 13106 CE1 PHE D 340 19.556 76.601 115.103 1.00 14.28 C ATOM 13106 CE1 PHE D 340 19.894 75.423 112.650 1.00 13.86 C ATOM 13110 CE2 PHE D 340 18.628 75.599 113.142 1.00 13.49 C ATOM 13110 CE2 PHE D 340 18.628 75.599 113.142 1.00 13.49 C ATOM 13114 C PHE D 340 22.0992 75.846 113.389 1.00 15.91 C ATOM 13115 O PHE D 340 22.034 75.841 115.995 1.00 16.50 O ATOM 13116 N HIS D 341 22.111 76.712 117.834 1.00 16.63 N ATOM 13118 CA PHE D 340 25.034 75.841 115.995 1.00 16.50 O ATOM 13120 CB HIS D 341 25.316 77.143 118.384 1.00 16.63 N ATOM 13120 CB HIS D 341 25.316 77.143 118.384 1.00 16.63 N ATOM 13120 CB HIS D 341 25.316 77.143 118.384 1.00 16.82 C ATOM 13120 CB HIS D 341 25.316 77.143 118.384 1.00 16.82 C ATOM 13120 CB HIS D 341 26.480 78.792 119.946 1.00 19.44 C ATOM 13120 CB HIS D 341 26.480 78.792 119.946 1.00 19.44 C ATOM 13120 CB HIS D 341 26.480 78.792 119.946 1.00 19.44 C ATOM 13120 CB HIS D 341 26.280 79.614 119.047 1.00 21.11 N ATOM 13120 CB HIS D 341 26.280 79.626 120.839 1.00 17.15 C ATOM 13120 CB HIS D 341 26.280 79.626 120.839 1.00 17.15 C ATOM 13120 CB HIS D 341 26.480 78.792 119.946 1.00 19.44 C ATOM 13120 CB HIS D 341 27.128 79.614 119.047 1.00 21.11 N ATOM 13120 CB HIS D 341 26.220 T C ATOM 13130 CD HIS D 341 27.128 79.614 119.047 1.00 21.11 N ATOM 13120 CB HIS D 341 27.40 78.790 121.068 1.00 21.17 C C ATOM 13130 CD HIS D 341 27.40 78.790 121.068 1.00 11.75 C C ATOM 13130 CD HIS D 341 27.40 78.790 121.068 1.00 15.56 N ATOM 13130 CD HIS D 341 27.40 78.790 121.068 11.00 12.25 C C ATOM 13130 CD HIS D 341 27.40 78.790 121.068 11.00 12.25 C C ATOM 13131 N ARG D 342 24.780 79.790 121.068 11.00 15.56 N ATOM 13131 N ATOM 13160 CA ARG D 342 24.780 79.790 121.0			С	ASP	D :	339	22.117			1.00	16.92		
ATOM 13098 CA PHE D 340				ASP	D	339	23.059	73.373	117.360	1.00	15.53		0
ATOM 13100 CB PHE D 340 22.664 75.743 116.153 1.00 16.21 C ATOM 13100 CB PHE D 340 21.989 76.888 115.419 1.00 15.86 C ATOM 13104 CD1 PHE D 340 19.556 76.601 115.103 1.00 14.28 C ATOM 13106 CE1 PHE D 340 19.556 76.601 115.103 1.00 14.28 C ATOM 13106 CE1 PHE D 340 18.647 76.189 114.357 1.00 13.86 C ATOM 13106 CE2 PHE D 340 18.648 75.599 113.142 1.00 13.49 C ATOM 13110 CE2 PHE D 340 20.992 75.846 113.389 1.00 15.91 C ATOM 13110 C CE2 PHE D 340 20.992 75.846 113.389 1.00 15.91 C ATOM 13111 C PHE D 340 22.092 75.846 113.389 1.00 16.59 C ATOM 13112 C D PHE D 340 24.045 76.109 116.658 1.00 16.12 ATOM 13115 O PHE D 340 25.034 75.841 115.995 1.00 16.50 O ATOM 13116 C ATOM 13110 C ATOM 13120 C ATOM 13130 C A							21.819	75.233	117.222	1.00	16.37		
ATOM 13100 CB PHE D 340 21.995 76.888 115.419 1.00 15.86 C ATOM 13104 CD1 PHE D 340 19.536 76.601 115.103 1.00 14.28 C ATOM 13106 CE1 PHE D 340 18.447 76.189 114.357 1.00 13.86 C ATOM 13106 CE1 PHE D 340 19.536 75.599 113.142 1.00 13.49 ATOM 13110 CE2 PHE D 340 19.894 75.493 112.650 1.00 14.38 C ATOM 13110 CE2 PHE D 340 20.992 75.846 113.389 1.00 15.91 C ATOM 13112 CD2 PHE D 340 24.045 76.109 116.658 1.00 16.12 C ATOM 13115 O PHE D 340 24.045 76.109 116.658 1.00 16.12 C ATOM 13115 O PHE D 340 24.045 76.109 116.658 1.00 16.12 C ATOM 13115 O PHE D 340 24.045 76.109 116.658 1.00 16.50 O ATOM 13118 CA RIS D 341 25.386 77.143 118.384 1.00 16.63 N ATOM 13118 CA RIS D 341 25.386 77.143 118.384 1.00 16.63 N ATOM 13118 CA RIS D 341 25.386 77.143 118.384 1.00 16.63 N ATOM 131120 CB RIS D 341 25.386 77.143 118.384 1.00 16.63 N ATOM 13123 C RIS D 341 25.219 78.056 119.599 1.00 17.15 C ATOM 13126 C EI RIS D 341 25.219 78.056 119.599 1.00 17.15 C ATOM 13126 C EI RIS D 341 26.480 78.792 119.946 1.00 19.44 C ATOM 13126 C EI RIS D 341 28.218 80.105 119.5611 1.00 22.20 C ATOM 13130 CD2 LIS D 341 27.128 79.626 120.839 1.00 21.17 C ATOM 13130 CD2 LIS D 341 27.240 78.790 121.068 1.00 21.17 C ATOM 13130 CD2 LIS D 341 27.40 78.790 121.068 1.00 21.17 C ATOM 13131 C ARG D 342 25.571 74.886 118.597 1.00 15.56 O ATOM 13131 C ARG D 342 25.571 74.886 118.597 1.00 15.56 O ATOM 13131 C ARG D 342 25.571 74.886 118.597 1.00 15.56 O ATOM 13131 C ARG D 342 25.571 74.886 118.597 1.00 15.56 O ATOM 13131 C ARG D 342 26.224 73.620 119.568 1.00 16.07 C ATOM 13130 C ARG D 342 24.621 71.926 122.539 1.00 17.32 C ATOM 13131 C ARG D 342 24.621 71.926 122.539 1.00 17.32 C ATOM 13130 C ARG D 342 24.621 71.926 122.539 1.00 15.56 O ATOM 13131 C ARG D 342 24.621 71.926 122.539 1.00 15.56 O ATOM 13150 NHI RAG D 342 24.621 71.926 122.539 1.00 15.56 O ATOM 13150 NHI RAG D 342 26.620 77.77 72.657 122.502 1.00 15.14 C ATOM 13150 NHI RAG D 342 26.620 77.77 72.657 122.502 1.00 15.14 C ATOM 13150 NHI RAG D 342 23.666 77.3143 117.17 0.0 15.18 N ARG D 342 24.621 71.926							22.664	75.743				•	
ATOM 13104 CDL PHE D 340			CB	PHE	D	340	21.995						
ATOM 13106 CD1 PRE D 340 19.536 76.601 115.103 1.00 14.28 C ATOM 13106 CD2 PRE D 340 18.628 75.599 113.142 1.00 13.86 C ATOM 13110 CD2 PRE D 340 18.628 75.599 113.142 1.00 13.49 C ATOM 13111 CD2 PRE D 340 19.844 75.423 112.650 1.00 14.38 C ATOM 13112 CD2 PRE D 340 20.992 75.846 113.389 1.00 15.91 C ATOM 13115 O PRE D 340 24.045 76.109 116.658 1.00 16.12 C ATOM 13116 N HIS D 341 24.111 76.712 117.834 1.00 16.50 O ATOM 13118 CA HIS D 341 24.111 76.712 117.834 1.00 16.63 N ATOM 13118 CA HIS D 341 25.219 78.056 119.599 1.00 16.50 O ATOM 13120 CB HIS D 341 25.219 78.056 119.599 1.00 17.15 C ATOM 13123 CB HIS D 341 25.219 78.056 119.599 1.00 17.15 C ATOM 13126 CD1 HIS D 341 27.128 79.614 119.047 1.00 21.11 N ATOM 13126 CD1 HIS D 341 28.307 79.626 120.839 1.00 21.65 N ATOM 13130 CD2 HIS D 341 28.307 79.626 120.839 1.00 21.65 N ATOM 13130 CD2 HIS D 341 26.231 75.949 118.753 1.00 16.10 C ATOM 13132 C HIS D 341 26.231 75.949 118.753 1.00 16.10 C ATOM 13134 N ARG D 342 25.571 74.886 119.205 1.00 15.56 C ATOM 13134 N ARG D 342 25.571 74.886 119.205 1.00 15.56 C ATOM 13134 N ARG D 342 25.571 74.886 119.205 1.00 15.56 C ATOM 13134 N ARG D 342 25.571 74.886 119.205 1.00 15.56 C ATOM 13134 N ARG D 342 25.571 74.886 119.205 1.00 15.56 C ATOM 13134 N ARG D 342 25.571 74.886 119.205 1.00 15.56 C ATOM 13134 N ARG D 342 25.571 74.886 119.205 1.00 15.56 C ATOM 13134 N ARG D 342 25.571 74.886 119.205 1.00 15.56 C ATOM 13134 N ARG D 342 25.571 74.886 119.205 1.00 15.56 C ATOM 13134 N ARG D 342 25.571 74.886 119.205 1.00 15.56 C ATOM 13134 N ARG D 342 26.886 73.303 114.386 1.00 17.32 C C ATOM 13134 N ARG D 342 26.886 73.891 1.00 15.56 C ATOM 13134 N ARG D 342 26.886 73.891 1.00 15.56 C ATOM 13136 C ARG D 342 24.788 73.102 121.623 1.00 17.32 C C ATOM 13137 O C ARG D 342 24.788 73.102 121.623 1.00 17.32 C C ATOM 13166 C ARG D 342 27.777 72.687 122.229 1.00 16.05 C C ATOM 13150 NH ARG D 342 27.777 72.687 122.229 1.00 16.05 C C ATOM 13150 NH ARG D 342 27.777 72.687 123.259 114.834 1.00 15.89 C C ATOM 13157 O ARG D 342 27.777 72.687 123.259			CG		D	340	20.819	76.452	114.618				С
ATOM 13106 CE1 PHE D 340		13104	CD1	PHE	D	340	19.536						С
ATOM 13110 CE2 FHE D 340 19.894 75.423 112.650 1.00 14.38 C ATOM 13112 CD2 PHE D 340 20.992 75.846 113.389 1.00 16.12 C ATOM 13114 C PHE D 340 24.045 76.109 116.658 1.00 16.12 C ATOM 13115 O PHE D 340 25.034 75.841 115.995 1.00 16.50 O ATOM 13116 N HIS D 341 24.111 76.712 117.834 1.00 16.63 N ATOM 13118 CA HIS D 341 25.336 77.143 118.384 1.00 16.63 N ATOM 13120 CB HIS D 341 25.336 77.143 118.384 1.00 16.62 C ATOM 13120 CB HIS D 341 25.396 77.143 118.384 1.00 16.63 C ATOM 13120 CB HIS D 341 25.396 77.143 118.384 1.00 16.62 C ATOM 13124 ND1 HIS D 341 27.128 79.614 119.047 1.00 17.15 C ATOM 13124 ND1 HIS D 341 27.240 78.792 119.946 1.00 17.15 C ATOM 13126 CE1 HIS D 341 28.218 80.105 119.611 1.00 22.20 C ATOM 13130 CD2 HIS D 341 28.218 80.105 119.611 1.00 22.20 C ATOM 13130 CD2 HIS D 341 27.240 78.790 121.068 1.00 21.65 N ATOM 13130 CD2 HIS D 341 27.240 78.790 121.068 1.00 21.17 C ATOM 13133 O HIS D 341 27.440 75.986 118.597 1.00 15.56 O ATOM 13133 N ARG D 342 25.571 74.886 119.205 1.00 15.56 O ATOM 13136 CA ARG D 342 25.527 72.687 120.229 1.00 16.05 C ATOM 13136 CA ARG D 342 25.207 72.687 120.229 1.00 16.05 C ATOM 13144 CD ARG D 342 25.207 72.687 120.229 1.00 16.05 C ATOM 13144 CD ARG D 342 24.621 71.926 122.539 1.00 15.56 C ATOM 13149 CZ ARG D 342 24.621 71.926 122.539 1.00 15.57 N ATOM 13140 CD ARG D 342 24.621 71.926 122.539 1.00 15.57 N ATOM 13140 CD ARG D 342 23.364 71.878 123.75 1.00 23.52 N ATOM 13150 NN1 ARG D 342 23.364 71.878 123.75 1.00 23.52 N ATOM 13150 NN1 ARG D 342 23.364 71.878 123.75 1.00 23.52 N ATOM 13157 O ARG D 342 23.364 71.878 123.75 1.00 24.03 N ATOM 13157 O ARG D 342 23.364 71.878 123.75 1.00 25.50 C ATOM 13157 N ARG D 342 23.869 69.35 124.752 1.00 26.29 N ATOM 13157 O ARG D 342 23.869 69.35 124.752 1.00 24.03 N ATOM 13157 O ARG D 342 23.869 69.35 124.752 1.00 24.03 N ATOM 13157 O ARG D 342 27.777 72.055 118.571 1.00 24.03 N ATOM 13157 O ARG D 342 27.777 72.055 118.571 1.00 15.14 C ATOM 13177 C ARG D 342 27.777 72.055 118.571 1.00 15.14 C ATOM 13179 C ARG D 342 27.777 72.055 118.571 1.00 1			CE1	PHE	D	340	18.447						
ATOM 13110 CE2 PHE D 340	MOTA	13108	CZ	PHE	D	340							
ATOM 13114 C PHE D 340 20.992 75.846 113.389 1.00 16.12 C ATOM 13115 O PHE D 340 25.034 75.841 115.995 1.00 16.50 O ATOM 13116 N HIS D 341 24.111 76.712 117.834 1.00 16.63 N HIS D 341 25.386 77.143 118.384 1.00 16.63 N ATOM 13118 CA HIS D 341 25.386 77.143 118.384 1.00 16.63 C ATOM 13120 CB HIS D 341 25.386 77.143 118.384 1.00 16.82 C ATOM 13121 CB HIS D 341 25.386 77.143 118.384 1.00 16.82 C ATOM 13122 CB HIS D 341 25.386 77.143 118.384 1.00 16.82 C ATOM 13123 CB HIS D 341 25.386 77.143 118.384 1.00 16.82 C ATOM 13124 ND1 HIS D 341 25.386 77.143 118.384 1.00 16.82 C ATOM 13126 CB1 HIS D 341 27.128 79.614 119.047 1.00 21.11 N ATOM 13126 CB1 HIS D 341 28.307 79.626 120.839 1.00 21.65 N ATOM 13130 CD2 HIS D 341 26.231 75.949 118.753 1.00 16.10 22.20 C ATOM 13132 C HIS D 341 27.440 75.986 118.597 1.00 15.56 N ATOM 13133 O HIS D 341 27.440 75.986 118.597 1.00 15.56 C ATOM 13136 CA ARG D 342 25.571 74.886 119.205 1.00 15.56 C ATOM 13136 CA ARG D 342 26.224 73.620 119.568 1.00 16.07 C ATOM 13136 CA ARG D 342 26.224 73.620 119.568 1.00 16.07 C ATOM 13141 CG ARG D 342 24.788 73.102 121.623 1.00 16.07 C ATOM 13147 NE ARG D 342 23.364 71.878 123.275 1.00 25.50 C ATOM 13147 NE ARG D 342 23.364 71.878 123.275 1.00 25.50 C ATOM 13150 NHI ARG D 342 23.869 69.835 124.275 1.00 23.52 N ATOM 13150 NHI ARG D 342 23.869 69.835 124.275 1.00 24.03 N ATOM 13150 NHI ARG D 342 23.869 69.835 124.275 1.00 24.03 N ATOM 13157 N LAB ARG D 342 27.777 72.055 118.571 1.00 15.13 N ATOM 13157 N LAB ARG D 342 27.777 72.055 118.571 1.00 15.13 N ATOM 13157 N LAB ARG D 342 27.777 72.055 118.571 1.00 15.13 N ATOM 13157 N LAB ARG D 342 27.777 72.055 118.571 1.00 15.13 N ATOM 13157 N LAB D 343 26.600 77.972 113.395 1.00 15.74 C ATOM 13179 C ARG D 342 26.367 73.143 117.170 1.00 15.18 N ATOM 13170 C A LAB D 343 26.600 77.972 113.395 1.00 15.50 C ATOM 13170 C A LAB D 343 26.600 77.972 113.395 1.00 15.54 C ATOM 13170 C A LAB D 343 26.600 77.972 113.395 1.00 15.54 C ATOM 13170 C A LEU D 345 26.405 77.838 113.337 1.00 16.56 C ATOM 13179 C B LEU D 345 26.405		13110	CE2	PHE	D	340							
ATOM 13116		13112	CD2										C
ATOM 13116 N HIS D 341	MOTA	13114	С	PHE	D	340							
ATOM 13118 CA HIS D 341	ATOM	13115	0	PHE									
ATOM 13120 CB HIS D 341 25.219 78.056 119.599 1.00 17.15 C ATOM 13123 CG HIS D 341 26.480 78.792 119.946 1.00 19.44 C ATOM 13124 ND1 HIS D 341 28.218 80.105 119.611 1.00 22.10 C ATOM 13126 CE1 HIS D 341 28.218 80.105 119.611 1.00 22.20 C ATOM 13128 NEZ HIS D 341 28.307 79.626 120.839 1.00 21.65 N ATOM 13130 CD2 HIS D 341 27.240 78.790 121.068 1.00 21.17 C ATOM 13130 CD2 HIS D 341 27.240 78.790 121.068 1.00 21.17 C ATOM 13133 O HIS D 341 27.440 75.986 118.597 1.00 15.56 O ATOM 13133 O HIS D 341 27.440 75.986 118.597 1.00 15.56 O ATOM 13134 N ARG D 342 25.571 74.886 119.205 1.00 15.87 N ATOM 13136 CA ARG D 342 25.571 74.886 119.205 1.00 15.87 N ATOM 13134 CA ARG D 342 24.788 73.102 121.623 1.00 16.07 C ATOM 13147 NE ARG D 342 24.788 73.102 121.623 1.00 16.05 C ATOM 13147 NE ARG D 342 24.788 73.102 121.623 1.00 17.32 C ATOM 13147 NE ARG D 342 23.364 71.878 123.275 1.00 25.50 C ATOM 13150 NH1 ARG D 342 23.364 71.878 123.275 1.00 25.50 C ATOM 13150 NH1 ARG D 342 23.869 69.835 124.275 1.00 24.03 N ATOM 13150 NH1 ARG D 342 22.887 70.897 124.752 1.00 24.03 N ATOM 13150 NH2 ARG D 342 22.887 70.897 124.752 1.00 26.29 N ATOM 13150 NH2 ARG D 342 22.887 77.897 124.752 1.00 26.29 N ATOM 13150 NH1 ARG D 342 22.877 70.897 124.752 1.00 26.29 N ATOM 13150 CA ALA D 343 26.367 73.143 117.170 1.00 15.13 N ATOM 13160 CA ALA D 343 26.367 73.143 117.170 1.00 15.13 N ATOM 13160 CA ALA D 343 26.367 73.143 117.170 1.00 15.13 N ATOM 13160 CA ALA D 343 26.960 72.634 115.929 1.00 15.14 C ATOM 13160 CA ALA D 343 26.960 77.634 115.929 1.00 15.14 C ATOM 13160 CA ALA D 343 26.960 77.634 115.929 1.00 15.14 C ATOM 13170 CA GLY D 344 29.626 75.336 115.959 1.00 15.14 C ATOM 13170 CA GLY D 344 29.626 75.336 115.959 1.00 15.14 C ATOM 13170 CA GLY D 344 29.626 75.336 115.959 1.00 15.14 C ATOM 13170 CA GLY D 344 29.626 75.336 115.959 1.00 15.14 C ATOM 13170 CA GLY D 344 29.626 75.336 115.959 1.00 15.14 C ATOM 13170 CA GLY D 345 27.800 77.972 113.955 1.00 16.56 C ATOM 13179 CA GLY D 345 27.800 77.972 113.955 1.00 16.56 C C ATOM 13182 CG LEU D 345 27.800	MOTA	13116	N	HIS									
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ATOM 13182 CG LEU D 345 26.208 76.577 112.502 1.00 17.17 C ATOM 13184 CD1 LEU D 345 24.875 76.607 111.832 1.00 17.49 C ATOM 13188 CD2 LEU D 345 27.314 76.427 111.457 1.00 19.65 C ATOM 13192 C LEU D 345 27.912 79.257 114.784 1.00 16.89 C ATOM 13193 O LEU D 345 27.621 79.268 115.996 1.00 17.01 O ATOM 13194 N GLN D 346 28.342 80.327 114.116 1.00 17.06 N ATOM 13196 CA GLN D 346 28.632 81.607 114.760 1.00 17.19 C ATOM 13198 CB GLN D 346 29.423 82.522 113.814 1.00 17.60 C	MOTA		CB	LEU	D	345	26.405						С
ATOM 13184 CD1 LEU D 345 24.875 76.607 111.832 1.00 17.49 C ATOM 13188 CD2 LEU D 345 27.314 76.427 111.457 1.00 19.65 C ATOM 13192 C LEU D 345 27.912 79.257 114.784 1.00 16.89 C ATOM 13193 O LEU D 345 27.621 79.268 115.996 1.00 17.01 O ATOM 13194 N GLN D 346 28.342 80.327 114.116 1.00 17.06 N ATOM 13196 CA GLN D 346 28.632 81.607 114.760 1.00 17.19 C ATOM 13198 CB GLN D 346 29.423 82.522 113.814 1.00 17.60 C				LEU	D	345							С
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ATOM 13193 O LEU D 345 27.621 79.268 115.996 1.00 17.01 O ATOM 13194 N GLN D 346 28.342 80.327 114.116 1.00 17.06 N ATOM 13196 CA GLN D 346 28.632 81.607 114.760 1.00 17.19 C ATOM 13198 CB GLN D 346 29.423 82.522 113.814 1.00 17.60 C													C
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	ATOM	13201	CG	GLN	ı D	346	30.644	81.87	g 113.1/1	T.00	1 TO.33		C

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	13204 13205 13206 13209 13210 13211 13213 13215 13225 13226 13227 13229 13231 13234 13234 13239 13240 13241 13242 13244 13246 13249 13250	CD GLN D 346 OE1 GLN D 346 NE2 GLN D 346 C GLN D 346 N VAL D 347 CA VAL D 347 CB VAL D 347 CG1 VAL D 347 CG2 VAL D 347 C VAL D 347 O VAL D 347 N GLU D 348 CA GLU D 348 CA GLU D 348 CB GLU D 348 CB GLU D 348 CB GLU D 348 CC GLU D 348 OE1 GLU D 348 OE2 GLU D 348 OE1 GLU D 348 OE2 GLU D 348 OE2 GLU D 348 OE1 GLU D 348 C GLU D 348 OE1 GLU D 348 OE2 GLU D 348 CC GLU D 348 OE1 GLU D 348 CC GLU D 349 CC GLU D 349 CA PHE D 349 CA PHE D 349 CC PHE D 349	26.776 28.140 28.975 29.917 29.938 30.637 25.890 25.754 24.993 25.837 25.837 25.837 24.759 24.759 24.319 24.425 24.965	81.261 114.198 81.946 115.117 79.963 114.050 82.297 115.154 82.137 114.474 83.062 116.248 83.862 116.681 84.370 118.164 85.805 118.358 83.430 119.085 84.985 115.680 85.279 115.414 85.555 115.073 86.529 113.980 86.949 113.415 87.801 114.359 87.001 115.260 85.753 115.213 87.642 116.048 86.012 112.820 86.800 112.015 84.686 112.733 83.991 111.690 82.795 111.226 82.031 110.029 82.679 108.924 81.950 107.818 80.574 107.808 79.911 108.899	1.00 20.92 1.00 21.20 1.00 23.47 1.00 17.01 1.00 16.46 1.00 17.07 1.00 17.24 1.00 17.35 1.00 18.18 1.00 16.88 1.00 16.62 1.00 17.02 1.00 17.07 1.00 17.09 1.00 17.09 1.00 17.55 1.00 15.66 1.00 17.91 1.00 17.91 1.00 17.57 1.00 17.56 1.00 17.57 1.00 17.56 1.00 17.56 1.00 17.56 1.00 17.56 1.00 17.56 1.00 17.56 1.00 17.56 1.00 17.56 1.00 17.57 1.00 17.56 1.00 17.57 1.00 17.56 1.00 17.57 1.00 17.56 1.00 17.56 1.00 24.67 1.00 25.29 1.00 25.29
ATOM	13258 13260	CD2 PHE D 349 C PHE D 349	25.409 23.657	80.632 109.989	1.00 24.56
MOTA	13261	O PHE D 349	22.601	83.539 112.268 83.689 111.625	1.00 16.59 1.00 17.28
ATOM	13262	N ILE D 350	23.667	83.033 113.504	1.00 17.28
ATOM ATOM	13264 13266	CA ILE D 350	22.426	82.522 114.080	1.00 13.52
ATOM	13268	CB ILE D 350 CG1 ILE D 350	22.703 23.477	81.689 115.349	1.00 13.14
ATOM	13271	CD1 ILE D 350	24.246	80.427 115.004 79.916 116.203	1.00 12.85
ATOM	13275	CG2 ILE D 350	21.415	81.277 116.076	1.00 12.77 1.00 11.63
ATOM ATOM	13279	C ILE D 350	21.430	83.662 114.365	1.00 13.33
ATOM	13280 13281	O ILE D 350 N ASN D 351	20.234	83.535 114.069	1.00 12.57
ATOM	13283	CA ASN D 351	21.905 20.970	84.757 114.959 85.791 115.419	1.00 12.77
MOTA	13285	CB ASN D 351	21.639	85.791 115.419 86.826 116.351	1.00 12.60 1.00 11.66
ATOM	13288	CG ASN D 351	21.914	86.250 117.738	1.00 11 41
ATOM ATOM	13289 13290	OD1 ASN D 351 ND2 ASN D 351	21.364	85.223 118.101	1.00 11.58
ATOM	13293	C ASN D 351	22.777 20.175	86.898 118.506	1.00 10.28
ATOM	13294	O ASN D 351	18.971	86.415 114.272 86.361 114.321	1.00 12.17 1.00 12.15
ATOM	13295	N PRO D 352	20.811	86.935 113.223	1.00 12.15
ATOM ATOM	13296. 13298	CA PRO D 352	20.048	87.518 112.090	1.00 12.89
ATOM	13301	CB PRO D 352 CG PRO D 352	21.149	87.956 111.116	1.00 12.57
ATOM	13304	CD PRO D 352	22.367 22.271	88.225 112.029 87.046 113.004	1.00 12.50
MOTA	13307	C PRO D 352	19.036	86.580 111.399	1.00 12.68 1.00 13.07
ATOM	13308	O PRO D 352	18.056	87.078 110.891	1.00 13.07
ATOM ATOM	13309 13311	N ILE D 353 CA ILE D 353	19.271	85.273 111.360	1.00 14.77
MOTA	13313	CB ILE D 353	18.375 19.061	84.337 110.666	1.00 15.44
MOTA	13315	CG1 ILE D 353	20.047	83.008 110.399 83.132 109.239	1.00 15.39
ATOM	13318	CD1 ILE D 353	20.850	81.852 108.991	1.00 17.58 1.00 18.21
MOTA	13322	CG2 ILE D 353	18.073	81.938 110.012	1.00 16.28
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ATOM	13326	С	ILE 1	D 3	353	17.139	84.120 111.511 1.00 16.28	С
ATOM	13327	0	ILE :	D 3	353	16.029	84.022 110.985 1.00 16.70	ŏ
ATOM	13328	N	PHE			17.338	84.049 112.824 1.00 16.01	Ň
ATOM	13330	CA	PHE			16.226	83.954 113.731 1.00 16.18	c
ATOM	13332	CB	PHE			16.669	83.566 115.167 1.00 16.26	Ċ
ATOM	13335	CG	PHE			16.669	82.083 115.390 1.00 14.24	
ATOM	13336	CD1	PHE			17.727		· C
							81.308 114.940 1.00 13.74	C
ATOM	13338		PHE		354	17.726	79.933 115.104 1.00 14.59	C
ATOM	13340	CZ	PHE			16.637	79.313 115.725 1.00 15.36	C C
ATOM	13342					15.558	80.077 116.155 1.00 13.49	С
MOTA	13344	CD2	PHE			15.575	81.459 115.969 1.00 14.41	С
MOTA	13346	С	PHE			15.374	85.207 113.695 1.00 16.36	С
MOTA	13347	0	PHE			14.169	85.085 113.682 1.00 16.51	. 0
ATOM	13348	N	GLU			15.947	86.398 113.631 1.00 17.38	N
ATOM	13350	CA	GLU			15.079	87.570 113.629 1.00 18.65	С
MOTA	13352	CB	GLU	D :	355	15.769	88.844 114.123 1.00 20.16	С
MOTA	13355	CG	GLU	D :	355	16.542	89.686 113.143 1.00 23.24	С
ATOM	13358	CD	GLU	D :	355	17.096	90.915 113.836 1.00 27.30	C
ATOM	13359	OE1	GLU			18.059	90.773 114.611 1.00 32.29	Ö
ATOM	13360		GLU			16.566	92.016 113.640 1.00 31.79	ŏ
MOTA	13361	Č	GLU			14.411	87.773 112.301 1.00 18.02	č
ATOM	13362	ŏ	GLU			13.314	88.305 112.252 1.00 17.33	Ö
ATOM	13363	Ň	PHE			15.048	87.310 111.224 1.00 18.12	N
ATOM	13365	CA	PHE			14.381	87.291 109.929 1.00 17.54	
ATOM	13367	CB	PHE			15.316		C
ATOM	13370	CG	PHE		356	14.651		0
ATOM	13371							C
ATOM			PHE PHE			14.415	87.763 106.699 1.00 18.84	C
	13373					13.804	87.595 105.438 1.00 19.22	C
MOTA	13375	CZ	PHE			13.439	86.342 105.003 1.00 17.86	C
MOTA	13377		PHE			13.683	85.238 105.803 1.00 20.18	С
MOTA	13379		PHE			14.280	85.399 107.055 1.00 19.82	С
MOTA	13381	С	PHE			13.177	86.371 110.011 1.00 17.21	С
MOTA	13382	0	PHE			12.080	86.744 109.577 1.00 16.56	0
MOTA	13383	N	SER			13.374	85.197 110.614 1.00 16.08	N
MOTA	13385	CA	SER			12.318	84.231 110.733 1.00 16.00	С
ATOM	13387	CB	SER			12.863	82.921 111.322 1.00 16.71	С
ATOM	13390	OG	SER	D	357	13.823	82.288 110.449 1.00 14.50	0
ATOM	13392	С	SER	D	357	11.159	84.782 111.564 1.00 16.84	С
ATOM	13393	0	SER	D	357	9.994	84.544 111.260 1.00 16.43	0
ATOM	13394	N	ARG	D	358	11.473	85.568 112.596 1.00 16.89	N
ATOM	13396	CA	ARG	D	358	10.436	86.112 113.474 1.00 16.31	С
ATOM	13398	CB	ARG	D	358	11.060	86.830 114.662 1.00 16.33	С
ATOM	13401	CG	ARG	D	358	11.152	86.056 115.934 1.00 17.48	C
ATOM	13404	CD	ARG			11.729	86.912 117.052 1.00 20.26	Ċ
ATOM	13407	NE	ARG	D	358	13.018	86.354 117.301 1.00 25.96	N
ATOM	13409	CZ	ARG			14.194	86.947 117.218 1.00 22.65	C
ATOM	13410		ARG			14.354	88.238 116.956 1.00 19.07	N
ATOM	13413		ARG			15.242	86.175 117.439 1.00 22.42	N
ATOM	13416	C	ARG			9.598	87.118 112.705 1.00 16.20	Ċ
MOTA	13417	ŏ	ARG			8.374	87.170 112.844 1.00 15.37	ō
MOTA	13418	N	ALA			10.269	87.947 111.920 1.00 16.45	N
ATOM	13420	CA	ALA			9.580	88.987 111.148 1.00 17.28	C
ATOM	13422	CB	ALA			10.582	_	
ATOM	13426	СБ	ALA			8.690		C
								C
MOTA	13427	O N	ALA			7.560	88.798 109.876 1.00 17.97	0
ATOM	13428	N	MET			9.199	87.316 109.449 1.00 18.83	N
MOTA	13430	CA	MET			8.457	86.585 108.422 1.00 19.27	C
ATOM	13432	CB	MET			9.323	85.473 107.835 1.00 18.85	C
ATOM	13435	CG	MET			10.382	85.957 106.843 1.00 18.94	C
ATOM	13438	SD	MET			9.743	86.806 105.396 1.00 21.35	S
MOTA	13439	CE	MET	D	360	8.502	85.627 104.774 1.00 21.00	С

ATOM	13443	С	MET D 360		7.170	86.016 109.002 1.00 20.13	
ATOM	13444	0	MET D 360	•	6.100	86.016 109.002 1.00 20.13 86.129 108.400 1.00 18.70	
ATOM	13445	. N	ARG D 361		7.290	85.447 110.201 1.00 21.90	
MOTA MOTA	13447 13449	CA	ARG D 361		6.174	84.834 110.907 1.00 23.42	
ATOM	13452	CB CG	ARG D 361 ARG D 361		6.665	84.197 112.191 1.00 24.79	
ATOM	13455	CD	ARG D 361		5.692 5.643	83.203 112.775 1.00 28.89	
ATOM	13458	NE	ARG D 361		4.583	81.963 111.923 1.00 34.68 81.042 112.295 1.00 38.61	
ATOM	13460	CZ	ARG D 361		4.120	81.042 112.295 1.00 38.61 80.118 111.473 1.00 42.14	
ATOM ATOM	13461 13464		ARG D 361		4.604	80.026 110.229 1.00 42 41	
ATOM	13467	NH2 C	RRG D 361 ARG D 361		3.158	79.289 111.888 1.00 43.94	
ATOM	13468	ŏ	ARG D 361		5.104 3.925	85.821 111.286 1.00 23.42 85.477 111.342 1.00 24.04	
ATOM	13469	N	ARG D 362		5.513	85.477 111.342 1.00 24.04 87.049 111.563 1.00 23.68	
ATOM	13471	CA	ARG D 362		4.559	88.113 111.885 1.00 24.21	
ATOM ATOM	13473 13476	CB	ARG D 362		5.279	89.325 112.489 1.00 24 12	
ATOM	13479	CG CD	ARG D 362 ARG D 362		5.563	89.158 113.981 1.00 25.37	
ATOM	13482	NE	ARG D 362		6.124 7.586	90.408 114.669 1.00 26.49 90.354 114.718 1.00 30.15	
MOTA	13484	CZ	ARG D 362		8.404	90.354 114.718 1.00 30.15 91.159 114.060 1.00 31.30	
ATOM	. 13485	NH1			7.928	92.133 113.290 1.00 35.68	
ATOM ATOM	13488 13491	NH2 C	ARG D 362 ARG D 362		9.710	90.997 114.171 1.00 29.73	
ATOM	13492	Ö	ARG D 362 ARG D 362		3.746 2.708	88.544 110.672 1.00 24.10	
ATOM	13493	N	LEU D 363		4.223	89.182 110.819 1.00 24.95 88.234 109.473 1.00 24.23	
ATOM	13495	CA	LEU D 363	•	3.463	88.234 109.473 1.00 24.23 88.535 108.258 1.00 24.15	
ATOM ATOM	13497	CB	LEU D 363		4.364	88.621 107.041 1.00 24 08	
ATOM	13500 13502	CG CD1	LEU D 363 LEU D 363		5.141	89.911 106.879 1.00 24.30	
ATOM	13502		LEU D 363		6.031 4.207	89.758 105.676 1.00 25.29 91.108 106.715 1.00 24.59	
ATOM	13510	C	LEU D 363		2.373	91.108 106.715 1.00 24.59 87.517 107.999 1.00 23.86	
ATOM	13511	0	LEU D 363		1.339	87.850 107.438 1.00 23.41	
ATOM ATOM	13512 13514	N CA	GLY D 364		2.617	86.281 108.413 1.00 24.24	
ATOM	13514	CA	GLY D 364 GLY D 364		1.635	85.214 108.287 1.00 24.01	
ATOM	13518	ŏ,	GLY D 364		1.352 0.206	84.865 106.846 1.00 23.85 84.788 106.464 1.00 24.01	
MOTA	13519	N	LEU D 365		2.392	84.788 106.464 1.00 24.01 84.664 106.046 1.00 24.07	
ATOM ATOM	13521	CA	LEU D 365		2.221	84.279 104.650 1.00 24.58	
ATOM	13523 13526	CB CG	LEU D 365 LEU D 365		3.551	84.294 103.909 1.00 24.35	
ATOM	13528	CD1	LEU D 365		4.442 5.344	85.522 103.945 1.00 25.06 85.532 102.705 1.00 25.33	
MOTA	13532	CD2	LEU D 365		3.626	85.532 102.705 1.00 25.33 86.776 104.042 1.00 26.01	
ATOM	13536	C	LEU D 365		1.638	82.874 104.514 1.00 24 93	
ATOM ATOM	13537 13538	О М	LEU D 365		2.138	81.940 105.150 1.00 25.34	
ATOM	13540	N CA	ASP D 366 ASP D 366		0.607 0.110	82.718 103.681 1.00 25.11	
ATOM	13542	СВ	ASP D 366		-1.384	81.372 103.345 1.00 25.42 81.354 102.926 1.00 24.99	
ATOM	13545	CG	ASP D 366		-1.745	81.354 102.926 1.00 24.99 82.380 101.854 1.00 25.12	
ATOM ATOM	13546 13547	OD1	ASP D 366		-0.865	82.799 101.070 1.00 24.72	
ATOM	13547	C C	ASP D 366 ASP D 366		-2.922	82.802 101.710 1.00 23.98	
ATOM	13549	Õ	ASP D 366		1.046 2.121	80.691 102.330 1.00 25.60	
ATOM .	13550	N	ASP D 367		0.670	81.211 102.031 1.00 25.84 79.517 101.838 1.00 25.74	
ATOM	13552	CA	ASP D 367		1.551	78.763 100.945 1.00 25.71	
ATOM ATOM	13554 13557	ĊВ	ASP D 367		0.983	77.363 100.678 1.00 25 96	
ATOM	13558	CG OD1	ASP D 367 ASP D 367		0.888	76.510 101.927 1.00 25.99	
ATOM	13559	OD2	ASP D 367 .		1.788 -0.069	76.575 102.787 1.00 25.17 75.733 102.118 1.00 27.86	
ATOM	13560	C	ASP D 367	•	1.730	75.733 102.118 1.00 27.86 79.477 99.605 1.00 25.15	
ATOM ATOM	13561	0	ASP D 367		2.827	79.503 99.038 1.00 25.46	
TI OP	13562	N	ALA D 368		0.641	80.040 99.099 1.00 24.22	
						•	

ATOM 13560 CB ALA D 368	MOTA	13564	CA	ALA	D :	368	0.67		30.766	97.833	1.00 2			С
ATOM 13570 C ALA D 3668 1.681 81.902 97.872 1.00 23.10 C ATOM 13571 O ALA D 368 2.428 82.111 96.905 1.00 23.25 O ATOM 13574 CA GLU D 369 1.691 82.629 98.990 1.00 22.03 N ATOM 13574 CA GLU D 369 2.511 83.816 99.117 1.00 21.31 C ATOM 13576 CB GLU D 369 2.511 83.816 99.117 1.00 21.31 C ATOM 13579 CG GLU D 369 0.813 85.424 100.365 1.00 21.22 C ATOM 13582 CD GLU D 369 0.813 85.424 100.365 1.00 21.22 C ATOM 13584 OE2 GLU D 369 0.813 85.424 100.365 1.00 21.23 C ATOM 13584 OE2 GLU D 369 0.813 85.424 100.321 1.00 17.91 O ATOM 13586 C GLU D 369 0.813 86.424 100.422 1.00 1.79 O ATOM 13586 C GLU D 369 0.813 86.424 100.422 1.00 20.99 C ATOM 13587 N THE D 370 4.345 84.93 5.99 6.91 1.00 20.99 C ATOM 13589 C G THE D 370 5.727 81.892 99.878 1.00 20.19 C ATOM 13591 CB THE D 370 5.727 81.892 99.878 1.00 20.19 C ATOM 13595 C G THE D 370 5.260 81.100 103.337 1.00 23.12 C ATOM 13595 C G THE D 370 5.260 81.100 103.337 1.00 23.12 C ATOM 13595 C G THE D 370 5.558 81.534 100.231 1.00 21.99 C ATOM 13595 C G THE D 370 5.568 81.534 100 103.337 1.00 23.12 C ATOM 13595 C G THE D 370 5.568 81.534 100.231 1.00 21.94 C ATOM 13590 C THE D 370 5.568 81.534 100.231 1.00 21.94 C ATOM 13590 C THE D 370 7.12 82.479 100.896 1.00 21.94 C ATOM 13590 C THE D 370 7.774 82.153 100.950 1.00 21.94 C ATOM 13590 C ATOM 13604 CD2 THE D 370 7.774 82.153 100.950 1.00 21.94 C ATOM 13604 CD2 THE D 370 7.774 82.153 100.950 1.00 21.94 C ATOM 13604 CD2 THE D 370 7.775 81.756 81.150 100.23.37 1.00 23.03 C ATOM 13606 C C TYR D 370 7.775 81.756 81.150 100.23.37 1.00 23.03 C ATOM 13607 C THE D 370 7.776 82.153 100.950 1.00 21.94 C ATOM 13608 N ALA D 371 5.551 80.834 97.740 1.00 20.55 0 ATOM 13608 N ALA D 371 5.551 80.834 97.740 1.00 20.55 0 ATOM 13610 C A ALA D 371 5.551 80.834 97.740 1.00 20.55 0 ATOM 13630 C ALA D 371 5.553 80.834 97.740 1.00 20.55 0 ATOM 13630 C ALEU D 372 5.505 80.834 97.740 1.00 20.05 C ATOM 13630 C ALEU D 373 6.626 80.834 97.740 1.00 20.05 C ATOM 13630 C ALEU D 373 6.626 80.834 97.740 1.00 20.05 C ATOM 13630 C ALEU D 373 8.806 80.834 97.740 1.00 20.			CB	ALA	D .	368	-0.70			97.506				C
Name		13570	С	ALA	D	368								
ATOM 13576 CB GLU D 369	MOTA	13571											•	
Name	ATOM	13572											-	
TOTOM 13579 CG GLU D 369 0.813 85.424 100.102 1.00 20.90 C RTOM 13582 CD GLU D 369 0.153 86.072 101.321 1.00 19.79 C RTOM 13583 OD1 GLU D 369 0.145 86.072 101.321 1.00 19.79 C RTOM 13584 OD2 GLU D 369 0.144 85.494 102.423 1.00 17.91 O RTOM 13585 C GLU D 369 0.144 85.494 102.423 1.00 17.91 O RTOM 13586 O GLU D 369 0.144 85.494 102.423 1.00 17.91 O RTOM 13586 O GLU D 369 4.744 84.004 98.322 1.00 20.49 O RTOM 13586 O GLU D 369 4.744 84.004 98.322 1.00 20.49 O RTOM 13589 C GLU D 370 5.727 81.892 99.878 1.00 20.12 C RTOM 13599 C RTYR D 370 5.727 81.892 99.878 1.00 21.12 C RTOM 13591 CB TYR D 370 5.727 81.892 99.878 1.00 21.12 C RTOM 13591 CB TYR D 370 6.216 81.184 102.311 1.00 21.99 C RTOM 13595 CD TYR D 370 6.216 81.184 102.311 1.00 21.99 C RTOM 13595 CD TYR D 370 6.216 81.184 102.311 1.00 21.99 C RTOM 13599 CZ TYR D 370 6.816 81.00 103.337 1.00 23.12 C RTOM 13599 CZ TYR D 370 7.12 82.479 106.263 1.00 25.50 C RTOM 13602 CZ TYR D 370 7.748 82.153 103.950 1.00 23.03 C RTOM 13604 CZ TYR D 370 7.748 82.153 103.950 1.00 21.94 C RTOM 13604 CZ TYR D 370 7.747 82.151 10.02.636 1.00 23.03 C RTOM 13604 CZ TYR D 370 7.747 82.153 103.950 1.00 21.94 C RTOM 13604 CZ TYR D 370 7.747 82.153 103.950 1.00 21.94 C RTOM 13604 CZ TYR D 370 7.747 82.153 103.950 1.00 21.94 C RTOM 13607 C TYR D 370 7.747 82.156 98.047 1.00 21.37 C RTOM 13608 N ALA D 371 5.558 81.534 1.466 59 80.047 1.00 21.37 C RTOM 13608 N ALA D 371 5.558 81.534 93.417 1.00 20.05 C RTOM 13610 C RALA D 371 5.558 81.534 93.417 1.00 20.05 C RTOM 13610 C RALA D 371 5.558 81.534 93.417 1.00 20.05 C RTOM 13610 C RALA D 371 5.558 81.534 93.941 1.00 20.05 C RTOM 13610 C RALA D 371 5.558 81.534 93.941 1.00 20.05 C RTOM 13610 C RALA D 371 5.558 81.534 93.941 1.00 20.06 C RTOM 13610 C RALA D 371 5.558 81.539 93.941 1.00 20.06 C RTOM 13610 C RALA D 371 5.558 81.539 93.941 1.00 20.06 C RTOM 13637 C REU D 372 5.059 83.817 93.945 1.00 20.48 C RTOM 13637 C REU D 372 5.059 83.817 93.945 1.00 20.48 C RTOM 13660 C REU D 373 7.872 83.827 93.935 1.00 1.00 20.48 C RTOM 13660 C REU D 373 8.026	MOTA	13574												C
ATOM 13580 CD CLU D 369														C
ATOM 13583 OBL GLU D 369 -0.415 87.168 101.153 1.00 17.89 O ATOM 13884 OBL GLU D 369 O.144 85.494 102.423 1.00 17.91 O ATOM 13886 O GLU D 369 A.744 84.004 98.322 1.00 20.49 O ATOM 13886 O GLU D 369 4.744 84.004 98.322 1.00 20.49 O ATOM 13886 O GLU D 369 A.744 84.004 98.322 1.00 20.49 O ATOM 13887 N TYR D 370 5.727 81.892 99.878 1.00 21.12 C ATOM 13891 CB TYR D 370 5.727 81.892 99.878 1.00 21.12 C ATOM 13891 CB TYR D 370 5.896 80.742 100.896 1.00 21.08 C ATOM 13891 CB TYR D 370 5.896 80.742 100.896 1.00 21.09 C ATOM 13891 CB TYR D 370 6.216 81.184 102.311 1.00 21.99 C ATOM 13895 CD TYR D 370 6.216 81.184 102.311 1.00 21.99 C ATOM 13897 CEL TYR D 370 7.12 82.479 106.263 1.00 21.94 C ATOM 13897 CEL TYR D 370 7.12 82.479 106.263 1.00 25.50 C ATOM 13604 CD TYR D 370 7.774 82.153 103.950 1.00 21.94 C ATOM 13604 CD TYR D 370 7.774 82.153 103.950 1.00 21.94 C ATOM 13604 CD TYR D 370 7.774 82.153 103.950 1.00 21.94 C ATOM 13604 CD TYR D 370 7.774 82.153 103.950 1.00 21.94 C ATOM 13604 CD TYR D 370 7.774 82.153 103.950 1.00 21.94 C ATOM 13606 C TYR D 370 7.774 82.153 103.950 1.00 21.94 C ATOM 13606 C TYR D 370 7.774 81.716 102.636 1.00 23.21 C ATOM 13606 C TYR D 370 7.774 81.716 102.636 1.00 23.21 C ATOM 13606 C ALA D 371 5.551 80.834 97.740 1.00 21.137 O ATOM 13608 N ALA D 371 5.551 80.834 97.740 1.00 21.137 O ATOM 13616 C ALA D 371 5.553 80.263 96.418 1.00 20.62 C ATOM 13610 CA ALA D 371 5.553 80.834 97.740 1.00 21.17 N ATOM 13618 N LEU D 372 5.093 81.563 94.894 1.00 20.62 C ATOM 13617 O ALA D 371 5.556 81.153 94.317 1.00 20.05 B C ATOM 13618 N LEU D 372 5.093 81.563 94.894 1.00 19.99 C ATOM 13620 C B LEU D 372 5.093 81.563 94.584 1.00 19.99 C ATOM 13637 C BLU D 372 5.093 81.563 94.584 1.00 19.99 C ATOM 13637 C BLU D 372 6.968 81.259 98.391 1.00 20.48 C ATOM 13667 C BLU D 372 6.968 81.599 98.207 1.00 20.55 N ATOM 13668 C BLU D 373 7.808 81.599 98.207 1.00 20.54 C ATOM 13667 C BLU D 373 9.826 86.597 98.331 1.00 10.92 0.00 80 C ATOM 13667 C BLU D 373 9.926 86.599 98.207 1.00 19.40 C C ATOM 13668 C BLU D 373 9.926 86.599														C
ATOM 13584 OEZ CLU D 369														ζ.
ATOM 13585 C GUU D 369														
ATOM 13586 O GUD 0 369 4.744 84.004 98.322 1.00 20.49 O ATOM 13587 N TYR D 370 4.345 82.395 99.878 1.00 20.98 N ATOM 13589 CA TYR D 370 5.586 80.742 100.896 1.00 21.02 C ATOM 13591 CB TYR D 370 5.896 80.742 100.896 1.00 21.08 C ATOM 13594 CG TYR D 370 6.216 81.184 102.311 1.00 21.99 C ATOM 13597 CEI TYR D 370 5.260 81.100 103.337 1.00 23.192 C ATOM 13597 CEI TYR D 370 5.260 81.100 103.337 1.00 23.194 C ATOM 13597 CEI TYR D 370 6.810 82.049 104.957 1.00 23.03 C ATOM 13599 CZ TYR D 370 7.774 82.153 103.350 1.00 23.194 C ATOM 13600 CH TYR D 370 7.774 82.153 103.950 1.00 23.91 C ATOM 13600 CT TYR D 370 7.774 82.153 103.950 1.00 23.91 C ATOM 13604 CDZ TYR D 370 7.774 82.153 103.950 1.00 23.91 C ATOM 13604 CDZ TYR D 370 7.774 82.153 103.950 1.00 21.94 C ATOM 13604 CDZ TYR D 370 7.774 82.153 103.950 1.00 21.94 C ATOM 13604 CDZ TYR D 370 7.774 82.153 103.950 1.00 21.91 C ATOM 13604 CDZ TYR D 370 7.774 82.153 103.950 1.00 21.91 C ATOM 13607 C TYR D 370 7.278 81.665 98.047 1.00 23.21 C ATOM 13607 C TYR D 370 7.278 81.665 98.047 1.00 21.05 C ATOM 13607 C TYR D 370 7.278 81.665 98.047 1.00 21.07 C ATOM 13618 N ALA D 371 5.251 80.834 97.740 1.00 21.17 N ATOM 13616 C ALA D 371 5.251 80.834 97.740 1.00 21.17 N ATOM 13616 C ALA D 371 5.752 81.321 95.300 1.00 20.58 C ATOM 13617 C ALA D 371 6.556 81.153 94.317 1.00 20.25 C ATOM 13618 N LEU D 372 5.015 82.418 95.477 1.00 20.25 C ATOM 13620 CA LEU D 372 5.015 82.418 95.477 1.00 20.25 N ATOM 13620 CA LEU D 372 5.015 82.418 95.477 1.00 20.25 N ATOM 13635 C LEU D 372 6.635 84.419 94.375 1.00 19.99 C ATOM 13637 C D LEU D 372 6.636 84.29 93.985 1.00 19.99 C ATOM 13636 C LEU D 372 6.636 84.29 93.985 1.00 19.91 C ATOM 13637 C LEU D 373 7.802 88.298 92.443 1.00 19.99 C ATOM 13637 C LEU D 373 7.802 88.298 92.443 1.00 19.91 C ATOM 13636 C LEU D 373 8.021 86.667 100.355 1.00 19.91 C ATOM 13636 C LEU D 373 8.021 86.667 100.355 1.00 19.91 C ATOM 13636 C LEU D 373 8.021 86.667 100.355 1.00 19.91 C ATOM 13654 C LEU D 373 9.262 87.425 95.827 1.00 19.24 C C ATOM 13656 C LEU D 373 9.922 88.223 95.5														
ATOM   13587   N										98 322				
ATOM 13589 CA TYR D 370 ATOM 13591 CB TYR D 370 ATOM 13594 CG TYR D 370 ATOM 13595 CD1 TYR D 370 ATOM 13596 CD1 TYR D 370 ATOM 13597 CD1 TYR D 370 ATOM 13597 CD1 TYR D 370 ATOM 13599 CZ TYR D 370 ATOM 13599 CZ TYR D 370 ATOM 13599 CZ TYR D 370 ATOM 13590 CZ TYR D 370 ATOM 13600 CH TYR D 370 ATOM 13600 CD2 TYR D 370 ATOM 13604 CD2 TYR D 370 ATOM 13604 CD2 TYR D 370 ATOM 13604 CD2 TYR D 370 ATOM 13606 C TYR D 370 ATOM 13606 C TYR D 370 ATOM 13607 O TYR D 370 ATOM 13608 N ALA D 371 ATOM 13610 CA ALA D 371 ATOM 13610 C ALA D 371 ATOM 13617 O ALA D 371 ATOM 13618 N LEU D 372 ATOM 13620 CA LEU D 372 ATOM 13620 CA LEU D 372 ATOM 13620 CA LEU D 372 ATOM 13621 C LEU D 372 ATOM 13635 C LEU D 372 ATOM 13636 C LEU D 372 ATOM 13637 N LEU D 372 ATOM 13638 C LEU D 372 ATOM 13639 C LEU D 372 ATOM 13636 C LEU D 373 ATOM 13636 C LEU D 373 ATOM 13637 N LEU D 373 ATOM 13638 C LEU D 373 ATOM 13639 CA LEU D 373 ATOM 13639 CA LEU D 373 ATOM 13636 C LEU D 373 ATOM 13637 N LEU D 374 ATOM 13639 CA LEU D 374 ATOM 13639 CA LEU D 373 ATOM 13630 C LEU D 373 ATOM 13634 C LEU D 373 ATOM 13636 C LEU D 373 ATOM 13636 C LEU D 373 ATOM 13636 C LEU D 373 ATOM 13660 CB LEU D 374 ATOM 13660 CB LEU D 3														
ATOM 13591 CB TYR D 370														
ATOM 13594 CG TYR D 370														
APOM   13595   CD1   TYR D   370   5.260   81.100   103.337   1.00   23.12   C   ATOM   13599   CZ   TYR D   370   5.558   81.534   104.663   1.00   21.94   C   ATOM   13599   CZ   TYR D   370   7.112   82.479   106.263   1.00   23.550   C   ATOM   13602   CEZ   TYR D   370   7.112   82.479   106.263   1.00   23.94   C   ATOM   13604   CD2   TYR D   370   7.475   81.716   102.636   1.00   23.21   C   ATOM   13606   C   TYR D   370   7.475   81.716   102.636   1.00   23.21   C   ATOM   13607   O   TYR D   370   6.166   81.44   98.474   1.00   21.05   C   ATOM   13608   N   ALA D   371   5.251   80.834   97.740   1.00   21.17   N   ATOM   13608   N   ALA D   371   5.563   80.263   96.418   1.00   20.58   C   ATOM   13610   CA   ALA D   371   5.553   80.263   96.418   1.00   20.58   C   ATOM   13616   C   ALA D   371   5.752   81.321   95.300   1.00   20.25   N   ATOM   13616   C   ALA D   371   6.556   81.153   94.317   1.00   20.25   N   ATOM   13617   O   ALA D   371   6.556   81.153   94.317   1.00   20.23   N   ATOM   13620   CA   LEU D   372   5.093   83.563   94.584   1.00   19.96   C   ATOM   13622   CB   LEU D   372   2.626   83.838   93.941   1.00   20.23   N   ATOM   13627   CD   LEU D   372   2.626   83.838   93.941   1.00   20.08   C   ATOM   13637   N   LEU D   372   2.806   83.998   92.443   1.00   20.06   C   ATOM   13636   C   LEU D   372   2.806   83.998   92.443   1.00   20.05   C   ATOM   13637   N   LEU D   373   6.629   84.557   96.020   1.00   19.51   N   ATOM   13640   CB   LEU D   373   6.629   84.557   96.020   1.00   19.51   N   ATOM   13640   CB   LEU D   373   8.081   86.667   100.0355   1.00   19.46   C   ATOM   13640   CB   LEU D   373   8.081   86.667   100.0355   1.00   19.46   C   ATOM   13660   CB   LEU D   373   8.081   86.667   100.0355   1.00   19.46   C   ATOM   13660   CB   LEU D   373   8.081   86.667   100.0355   1.00   19.46   C   ATOM   13660   CB   LEU D   373   8.081   86.667   100.0355   1.00   19.46   C   ATOM   13660   CB   LEU D   374   10.024   80.700   97.656														С
ATOM 13599 CZ TYR D 370											1.00	23.12		С
ATOM 13600 OH TYR D 370													•	C
ATOM 13600 OH TYR D 370									82.049	104.957	1.00	23.03		
ATOM 13602 CE2 TYR D 370 7.774 82.153 103.950 1.00 21.94 C ATOM 13604 CD2 TYR D 370 6.166 81.444 98.474 1.00 21.05 C ATOM 13606 C TYR D 370 7.297 81.665 98.047 1.00 21.37 O ATOM 13608 N ALA D 371 5.251 80.834 97.740 1.00 21.37 N ATOM 13608 N ALA D 371 5.563 80.263 96.418 1.00 20.62 C ATOM 13610 CA ALA D 371 5.553 80.263 96.418 1.00 20.62 C ATOM 13610 C ALA D 371 5.752 81.321 95.300 1.00 20.48 C ATOM 13617 O ALA D 371 6.556 81.153 94.317 1.00 20.23 N ATOM 13618 N LEU D 372 5.015 82.418 95.477 1.00 20.23 N ATOM 13620 CA LEU D 372 5.093 83.563 94.584 1.00 19.99 C ATOM 13622 CB LEU D 372 2.662 83.838 93.941 1.00 20.08 C ATOM 13635 C LEU D 372 2.806 83.998 92.443 1.00 19.99 C ATOM 13636 CD LEU D 372 2.806 83.998 92.443 1.00 20.63 C ATOM 13636 C LEU D 372 6.963 84.920 93.985 1.00 20.044 O ATOM 13637 N LEU D 372 6.963 84.920 93.985 1.00 20.044 O ATOM 13639 C A LEU D 373 6.629 84.957 96.202 1.00 19.51 N ATOM 13636 C LEU D 373 8.021 86.779 98.837 1.00 20.05 C ATOM 13636 C LEU D 373 8.021 86.779 98.837 1.00 20.44 C ATOM 13656 CD LEU D 373 8.021 86.779 98.837 1.00 19.22 C ATOM 13657 C LEU D 373 9.262 87.425 98.331 1.00 20.42 C ATOM 13658 C LEU D 373 8.021 86.779 98.837 1.00 19.24 C ATOM 13656 C LEU D 373 8.021 86.779 98.837 1.00 19.24 C ATOM 13656 C LEU D 373 9.262 87.425 98.331 1.00 20.42 C ATOM 13656 C LEU D 373 9.262 87.425 98.331 1.00 20.42 C ATOM 13656 C LEU D 373 9.262 87.425 98.331 1.00 20.42 C ATOM 13656 C LEU D 373 9.926 87.425 98.331 1.00 20.42 C ATOM 13656 C C LEU D 373 9.926 87.425 98.331 1.00 19.46 C ATOM 13656 C C LEU D 373 9.926 87.425 98.331 1.00 19.46 C ATOM 13656 C C LEU D 373 9.926 87.425 98.331 1.00 19.46 C ATOM 13657 C LEU D 373 9.926 87.425 98.331 1.00 19.46 C ATOM 13658 C A LEU D 373 9.926 87.425 98.331 1.00 19.46 C ATOM 13658 C A LEU D 373 9.926 87.425 98.331 1.00 19.46 C ATOM 13658 C A LEU D 373 9.926 87.425 98.331 1.00 19.46 C ATOM 13658 C A LEU D 373 9.926 87.425 98.331 1.00 19.46 C ATOM 13669 C C LEU D 373 9.926 87.425 98.331 1.00 19.46 C ATOM 13669 C C LEU D 373 9.926 87.425 98.837 1.00 18.49							7.1							
ATOM 13606 CD TYR D 370							7.7	74						С
ATOM 13607 O TYR D 370 7.297 81.665 98.047 1.00 21.37 O ATOM 13608 N ALA D 371 5.551 80.834 97.740 1.00 21.17 N ATOM 13610 CA ALA D 371 5.563 80.263 96.418 1.00 20.62 C ATOM 13612 CB ALA D 371 4.501 79.315 96.0045 1.00 20.58 C ATOM 13616 C ALA D 371 6.556 81.153 96.4015 1.00 20.58 C ATOM 13616 C ALA D 371 6.556 81.153 95.300 1.00 20.48 C ATOM 13617 O ALA D 371 6.556 81.153 95.301 1.00 20.25 O ATOM 13618 N LEU D 372 5.015 82.418 95.477 1.00 20.23 N ATOM 13620 CA LEU D 372 5.093 83.563 94.584 1.00 19.99 C ATOM 13622 CB LEU D 372 3.827 84.413 95.401 10.0 20.08 C ATOM 13625 CG LEU D 372 2.626 83.838 93.941 1.00 19.96 C ATOM 13625 CD LEU D 372 2.806 83.838 93.941 1.00 20.08 C ATOM 13635 C LEU D 372 2.806 83.998 92.443 1.00 20.08 C ATOM 13635 C LEU D 372 6.315 84.416 94.907 1.00 20.05 C ATOM 136363 C LEU D 372 6.315 84.416 94.907 1.00 20.05 C ATOM 136363 C LEU D 372 6.963 84.920 93.985 1.00 19.70 C ATOM 13637 N LEU D 373 6.629 84.920 93.985 1.00 20.05 C ATOM 13636 O LEU D 373 7.800 85.302 96.648 1.00 19.22 C ATOM 13644 CB LEU D 373 7.800 85.302 96.648 1.00 19.22 C ATOM 13654 CB LEU D 373 7.800 85.302 96.648 1.00 19.22 C ATOM 13655 C LEU D 373 7.800 85.302 96.648 1.00 19.22 C ATOM 13656 CD LEU D 373 8.021 86.779 98.837 1.00 19.46 C ATOM 13655 C LEU D 373 8.021 86.779 98.837 1.00 19.46 C ATOM 13655 C LEU D 373 9.922 85.233 95.513 1.00 19.71 C ATOM 13655 C LEU D 373 9.922 85.223 95.513 1.00 19.46 C ATOM 13655 C LEU D 373 9.922 85.223 95.513 1.00 18.49 O ATOM 13656 CD1 LEU D 373 9.922 85.223 95.513 1.00 18.49 O ATOM 13656 CD1 LEU D 374 9.999 80.978 96.101 1.00 18.22 C ATOM 13655 C LEU D 374 10.242 80.730 97.656 1.00 19.63 C ATOM 13665 CD1 LEU D 374 10.242 80.730 97.656 1.00 19.63 C ATOM 13665 CD1 LEU D 374 10.940 80.076 95.331 1.00 19.63 C ATOM 13665 CD1 LEU D 374 10.940 80.076 95.331 1.00 10.0 18.22 C ATOM 13665 CD1 LEU D 374 10.940 80.076 95.331 1.00 10.0 18.22 C ATOM 13665 CD1 LEU D 374 10.940 80.076 95.331 1.00 10.661 C ATOM 13667 N ALA D 375 9.393 82.671 93.568 1.00 17.01 N ATOM 13667 N ALA D 375 9.393 82.671 93.568		13604												C
ATOM 13608 N ALA D 371	MOTA	13606	С											
ATOM 13610 CA ALA D 371	MOTA	13607	0											
ATOM 13612 CB ALA D 371	MOTA	13608												
ATOM 13616 C ALA D 371 5.752 81.321 95.300 1.00 20.48 C ATOM 13617 O ALA D 371 6.556 81.153 94.317 1.00 20.25 O ATOM 13618 N LEU D 372 5.015 82.418 95.477 1.00 20.23 N ATOM 13620 CA LEU D 372 5.093 83.563 94.584 1.00 19.99 C ATOM 13622 CB LEU D 372 2.626 83.838 93.941 1.00 20.08 C ATOM 13625 CG LEU D 372 2.626 83.838 93.941 1.00 20.08 C ATOM 13625 CG LEU D 372 2.626 83.838 93.941 1.00 20.08 C ATOM 13625 CD LEU D 372 2.626 83.998 92.443 1.00 20.63 C ATOM 13635 C LEU D 372 6.315 84.479 94.375 1.00 19.70 C ATOM 13635 C LEU D 372 6.315 84.416 94.907 1.00 20.05 C ATOM 13636 O LEU D 372 6.963 84.920 93.985 1.00 20.44 O ATOM 13637 N LEU D 373 6.629 84.557 96.202 1.00 19.51 N ATOM 13639 CA LEU D 373 7.800 85.302 96.648 1.00 19.22 C ATOM 13646 CB LEU D 373 7.872 85.398 98.207 1.00 19.24 C ATOM 13646 CD LEU D 373 8.021 86.679 98.837 1.00 19.46 C ATOM 13646 CD LEU D 373 8.081 86.667 100.355 1.00 19.46 C ATOM 13655 O LEU D 373 8.081 86.667 100.355 1.00 19.71 C ATOM 13656 N LLE D 373 9.262 87.425 98.331 1.00 20.42 C ATOM 13656 N LLE D 373 9.922 85.223 95.513 1.00 18.74 C ATOM 13656 N LLE D 374 9.909 80.978 96.162 1.00 18.29 N ATOM 13656 N LLE D 374 9.909 80.978 96.162 1.00 18.29 N ATOM 13669 CG2 ILE D 374 9.999 80.978 96.162 1.00 18.29 N ATOM 13666 CD1 LE D 374 9.999 80.978 96.162 1.00 18.29 N ATOM 13666 CD1 LE D 374 9.999 80.978 96.162 1.00 18.29 N ATOM 13666 CD1 LE D 374 9.999 80.978 96.162 1.00 18.42 C ATOM 13667 N ALA D 375 9.393 82.871 92.255 827 1.00 19.63 C ATOM 13667 N ALA D 375 9.393 82.871 92.255 81.00 16.70 N ATOM 13677 CA ALA D 375 9.393 82.871 92.556 1.00 16.59 C ATOM 13679 CB ALA D 375 8.028 82.672 93.568 1.00 17.01 N ATOM 13677 CA ALA D 375 9.393 82.871 92.554 1.00 16.59 C ATOM 13668 O ALA D 375 8.028 82.672 93.568 1.00 17.01 N ATOM 13668 O ALA D 375 8.028 82.672 93.568 1.00 17.01 N ATOM 13679 CB ALA D 375 8.028 82.672 93.568 1.00 16.59 C ATOM 13668 O ALA D 375 8.028 82.672 93.568 1.00 16.59 C ATOM 13668 N ILE D 374 84.256 99.918 1.00 16.50 C ATOM 13668 N ILE D 376 84.4885 99.918 1.00 16.60 C ATOM 13668 N ILE														Č
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ATOM 13636 O LEU D 372 6.963 84.920 93.985 1.00 20.44 O ATOM 13637 N LEU D 373 6.629 84.557 96.202 1.00 19.51 N ATOM 13639 CA LEU D 373 7.800 85.302 96.648 1.00 19.22 C ATOM 13641 CB LEU D 373 7.872 85.398 98.207 1.00 19.24 C ATOM 13644 CG LEU D 373 8.021 86.779 98.837 1.00 19.46 C ATOM 13650 CD2 LEU D 373 9.262 87.425 98.331 1.00 20.42 C ATOM 13654 C LEU D 373 9.262 87.425 98.331 1.00 20.42 C ATOM 13655 O LEU D 373 9.262 87.425 98.331 1.00 20.42 C ATOM 13655 O LEU D 373 9.922 85.223 95.513 1.00 18.74 C ATOM 13656 N ILE D 374 9.100 83.288 96.312 1.00 18.49 O ATOM 13656 CA ILE D 374 10.227 82.472 95.827 1.00 18.22 C ATOM 13660 CB ILE D 374 9.999 80.978 96.162 1.00 18.42 C ATOM 13665 CD1 ILE D 374 9.999 80.978 96.162 1.00 18.42 C ATOM 13665 CD1 ILE D 374 9.598 79.469 98.203 1.00 20.49 C ATOM 13667 C ILE D 374 10.242 80.730 97.656 1.00 19.63 C ATOM 13667 C ILE D 374 10.940 80.076 95.338 1.00 19.63 C ATOM 13673 C ILE D 374 10.940 80.076 95.338 1.00 18.65 C ATOM 13674 C ILE D 374 10.940 80.076 95.338 1.00 19.63 C ATOM 13674 C ILE D 374 10.940 80.076 95.338 1.00 17.54 C ATOM 13677 CA ALA D 375 9.313 82.672 93.568 1.00 17.01 N ATOM 13677 CA ALA D 375 9.393 82.871 92.125 1.00 16.61 C ATOM 13683 C ALA D 375 9.393 82.871 92.125 1.00 16.61 C ATOM 13684 O ALA D 375 9.994 84.256 91.803 1.00 16.64 O ATOM 13684 O ALA D 375 9.994 84.256 91.803 1.00 16.64 O ATOM 13684 O ALA D 375 9.994 84.256 91.803 1.00 16.64 O ATOM 13684 O ALA D 375 9.994 84.256 91.803 1.00 16.64 O ATOM 13684 O ALA D 375 9.994 84.256 91.803 1.00 16.64 O ATOM 13685 N ILE D 376 9.498 85.281 92.544 1.00 16.64									84.416	94.907	1.00	20.05		С
ATOM 13637 N LEU D 373 6.629 84.557 96.202 1.00 19.51 N ATOM 13639 CA LEU D 373 7.800 85.302 96.648 1.00 19.22 C ATOM 13641 CB LEU D 373 7.872 85.398 98.207 1.00 19.24 C ATOM 13644 CG LEU D 373 8.021 86.779 98.837 1.00 19.46 C ATOM 13646 CD1 LEU D 373 8.081 86.667 100.355 1.00 19.71 C ATOM 13650 CD2 LEU D 373 9.262 87.425 98.331 1.00 20.42 C ATOM 13654 C LEU D 373 9.037 84.596 96.091 1.00 18.74 C ATOM 13655 O LEU D 373 9.922 85.223 95.513 1.00 18.49 O ATOM 13656 N ILE D 374 9.992 85.223 95.513 1.00 18.49 O ATOM 13658 CA ILE D 374 9.999 80.978 96.162 1.00 18.22 C ATOM 13660 CB ILE D 374 9.999 80.978 96.162 1.00 18.42 C ATOM 13660 CD1 ILE D 374 9.999 80.978 96.162 1.00 18.42 C ATOM 13669 CG2 ILE D 374 9.598 79.469 98.203 1.00 20.49 C ATOM 136673 C ILE D 374 10.242 80.730 97.656 1.00 19.63 C ATOM 13673 C ILE D 374 10.940 80.076 95.338 1.00 18.65 C ATOM 13673 C ILE D 374 10.940 80.076 95.338 1.00 18.65 C ATOM 13673 C ILE D 374 10.940 80.076 95.338 1.00 18.65 C ATOM 13673 C ILE D 374 11.536 82.863 93.848 1.00 16.73 O ATOM 13677 CA ALA D 375 9.313 82.672 93.568 1.00 17.01 N ATOM 13677 CA ALA D 375 9.393 82.871 92.125 1.00 16.61 C ATOM 13683 C ALA D 375 9.393 82.871 92.125 1.00 16.59 C ATOM 13684 O ALA D 375 9.9974 84.256 91.803 1.00 16.59 C ATOM 13684 O ALA D 375 9.9974 84.256 91.803 1.00 16.59 C ATOM 13684 O ALA D 375 9.9974 84.256 91.803 1.00 16.59 C ATOM 13684 O ALA D 375 9.9974 84.256 91.803 1.00 16.59 C ATOM 13685 N ILE D 376 9.498 85.281 92.544 1.00 16.620 N				LEU	D	372								
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ATOM	13689	СВ	ILE	D 376	9.248	87.627	02 204	1 00 10 11			
MOTA	13691		ILE	D 376	7.825	87.803	93.324 92.781	1.00 16.11 1.00 16.30			. C
ATOM	13694	CD1			6.843	88.452	93.715	1.00 16.30			C
ATOM .		CG2		D 376	9.955	89.010	93.470	1.00 15.48			. C
ATOM	13702	C	ILE		11.538	86.666	92.678	1.00 17.41			. C
ATOM ATOM	13703	0	ILE	D 376	12.324	87.309	91.972	1.00 16.20		•	. 0
ATOM	13704 13706	N		D 377	11.923	85.948	93.738	1.00 19.09			N
ATOM	13708	CA CB	ASN		13.297	85.930	94.250	1.00 20.66			Ĉ
ATOM	13711	CG		D 377 D 377	13.382	85.211	95.609	1.00 21.50			C.
ATOM	13712		ASN	לוג ט דרג ת	14.758 15.659	85.331	96.231	1.00 22.32			С
ATOM	13713	ND2	ASN	D 377	14.940	84.486 86.428	96.019	1.00 24.66			0
ATOM	13716	C		D 377	14.264	85.247	96.962 93.303	1.00 26.15			N
MOTA	13717	0		D 377	15.445	85.658	93.169	1.00 21.20 1.00 22.09	•		C
ATOM	13718	N		D 378	13.731	84.242	92.605	1.00 22.09		•	0
MOTA	13720	CA		D 378	14.450	83.547	91.538	1.00 22.45			N
ATOM	13722	СВ	ILE		13.658	82.292	91.021	1.00 22.50		•	·C
ATOM	13724	CG1	ILE	D 378	13.750	81.164	92.056	1.00 22.30		•	C
ATOM ATOM	13727 13731	CD1	ILE :	D 378	12.946	79.921	91.696	1.00 22.32			č
ATOM	13735	C		D 378 D 378	14.210	81.777	89.682	1.00 22.42			C
ATOM	13736	ŏ		D 378	14.710 15.822	84.538	90.421	1.00 22.67			С
ATOM	13737	N	PHE	D 379	15.822	84.598 85.314	89.899	1.00 23.46			0
ATOM	13739	CA	PHE	D 379	13.713	86.023	90.058 88.775	1.00 23.13			N
ATOM	13741	CB	PHE I	D 379	12.330	85.940	88.102	1.00 23.43 1.00 23.42	•		C
ATOM	13744	CG	PHE I	D 379	11.977	84.551	87.586	1.00 23.42			C
MOTA	13745	CD1	PHE I	D 379	10.824	83.888	88.017	1.00 23.13			C
ATOM ATOM	13747		PHE I	D 379	10.481	82.638	87.514	1.00 23.45			č
ATOM	13749 13751	CZ CE2		D 379	11.295	82.029	86.575	1.00 23.02			č
ATOM	13753		PHE I	D 379 D 379	12.451	82.678	86.131	1.00 23.17			C
ATOM	13755	C		379 ·	12.785 14.228	83.935 87.464	86.634	1.00 23.34			С
ATOM	13756	ō	PHE I		13.606	88.431	88.929 88.457	1.00 23.64			С
ATOM	13757	N	SER I		15.422	87.579	89.528	1.00 24.39 1.00 23.56			0
ATOM	13759	CA	SER I		16.113	88.857	89.670	1.00 23.81			N.
ATOM	13761	СВ	SER I		16.723	88.941	91.061	1.00 24.08			C.
ATOM ATOM	13764	OG	SER I		15.890	88.308	92.019	1.00 22.99			Õ
ATOM	13766 13767	C O	SER I		17.217	89.047	88.623	1.00 24.40			č
ATOM	13768	N	SER D		18.147	88.229	88.549	1.00 24.34			0
MOTA	13770	CA	ALA I		17.110 18.046	90.135	87.835	1.00 25.02	•		N
MOTA	13772	СВ	ALA I		17.350	90.400 91.257	86.731 85.629	1.00 25.63			C.
MOTA	13776	С	ALA D	381	19.374	91.056	87.178	1.00 25.63 1.00 26.26			C
ATOM	13777	0	ALA D		20.350	91.084	86.409	1.00 26.43			C
ATOM	13778	N	ASP D		19.423	91.565	88.413	1.00 27.15			N
ATOM ATOM	13780	CA	ASP D	382	20.661	92.158	88.963	1.00 27.84			C
ATOM	13782 13785	CB CG	ASP D	382	20.310	93.260	89.959	1.00 27.97			č
ATOM	13786		ASP D	302	20.075	92.717	91.336	1.00 29.48			C
ATOM	13787	OD2	ASP D	302	19.208 20.729	91.823	91.476	1.00 31.55			0
ATOM	13788	c	ASP D	382	21.614	93.085 91.140	92.335	1.00 31.34			0
ATOM	13789	0	ASP D	382	22.545	91.529	89.662 90.450	1.00 27.85	•		C
MOTA	13790	N	ARG D	383	21.389	89.846	89.380	1.00 28.22 1.00 27.58			0
ATOM	13792	CA	ARG D	383	22.362	88.816	89.740	1.00 27.38			N C
ATOM ATOM	13794	CB	ARG D	383	21.781	87.417	89.530	1.00 27.18			C
ATOM	13797 13800	CG	ARG D		20.517	87.169	90.283	1.00 26.76			Č
ATOM	13803	CD NE	ARG D		20.626	87.429	91.759	1.00 25.16			Č
ATOM	13805		ARG D	383	19.465	86.902	92.452	1.00 24.18			N
MOTA	13806	NH1	ARG D	383	19.320 20.267	86.892 87.391	93.771	1.00 23.48			С
ATOM	13809	NH2	ARG D	383	18.216	86.385	94.558 94.301	1.00 23.07 1.00 22.02			N
			_	- · <del>-</del>		30.000	74.20T	1.00 22.02			N

ATOM 15015 0 1MG 5 500 00 204 1 00 27 23 N	ATOM	13812	С.	ARG I				615	88.962	88.867	1.00			C
ACCOM   1381.5   CA   PRO D   384   25.991   88.459   88.559   1.00   26.93   C   ACCOM   13820   CG   PRO D   384   27.082   88.325   89.559   1.00   26.93   C   ACCOM   13823   CD   PRO D   384   24.999   88.072   90.778   1.00   27.27   C   ACCOM   13826   C   PRO D   384   24.999   88.072   90.778   1.00   27.27   C   ACCOM   13826   C   PRO D   384   25.138   86.387   87.484   1.00   26.70   C   ACCOM   13828   N   ASN D   385   26.444   86.662   85.198   1.00   25.93   N   ACCOM   13828   N   ASN D   385   26.444   86.662   85.198   1.00   25.58   C   ACCOM   13835   CG   ASN D   385   27.162   85.376   85.198   1.00   25.58   C   ACCOM   13836   CD   ASN D   385   28.619   85.650   87.233   1.00   25.58   C   ACCOM   13836   CD   ASN D   385   22.819   85.650   87.233   1.00   25.58   C   ACCOM   13836   CD   ASN D   385   22.8199   85.650   87.233   1.00   25.63   C   ACCOM   13844   C   ASN D   385   25.104   85.403   84.479   1.00   25.65   N   ACCOM   13844   C   ASN D   385   25.104   85.403   84.479   1.00   25.65   N   ACCOM   13844   C   ASN D   386   22.814   86.907   83.641   1.00   25.63   C   ACCOM   13844   C   ASN D   386   22.814   86.907   83.641   1.00   25.63   C   ACCOM   13844   C   ASN D   386   22.814   86.907   83.937   1.00   25.52   N   ACCOM   13846   CG   VAL D   386   22.814   86.907   83.937   1.00   25.52   N   ACCOM   13846   CG   VAL D   386   22.814   86.907   83.937   1.00   25.50   C   ACCOM   13856   C   ACCOM   13857   C   ACCOM   13856   C   ACCOM   13857   C   ACCOM   C   ACCOM   13857   C   ACCOM   13857   C   ACCOM   13857   C   A	MOTA								89.480	87.750				0
ATOM   13817   CB   PRO   D   384   27.082   88.032   89.559   1.00   26.93   C   ATOM   13820   CG   PRO   D   384   26.338   87.410   90.730   1.00   27.07   C   ATOM   13823   CD   PRO   D   384   26.338   87.410   90.730   1.00   27.08   C   ATOM   13826   C   PRO   D   384   25.819   87.395   87.484   1.00   27.08   C   ATOM   13828   N   ASN   D   385   26.387   87.6452   1.00   26.88   C   ATOM   13830   CA   ASN   D   385   26.387   87.6452   1.00   25.76   C   ATOM   13830   CA   ASN   D   385   26.387   87.6452   1.00   25.76   C   ATOM   13830   CA   ASN   D   385   27.162   85.376   85.639   1.00   25.76   C   ATOM   13835   CG   ASN   D   385   27.162   85.376   85.639   1.00   25.58   C   ATOM   13836   ODI   ASN   D   385   28.909   85.960   86.047   1.00   25.58   C   ATOM   13840   C   ASN   D   385   25.125   86.321   85.439   85.639   1.00   25.65   N   ATOM   13841   C   ASN   D   385   25.125   86.321   84.479   1.00   25.65   N   ATOM   13842   N   ASN   D   385   25.125   86.321   84.479   1.00   25.65   N   ATOM   13844   CA   VAIL   D   386   24.043   87.062   84.746   1.00   25.20   N   ATOM   13846   CB   VAIL   D   386   24.043   87.062   84.746   1.00   25.20   N   ATOM   13846   CB   VAIL   D   386   24.043   87.062   83.431   1.00   24.86   C   ATOM   13852   CG2   VAIL   D   386   24.043   87.062   83.433   1.00   24.86   C   ATOM   13856   C   VAIL   D   386   24.043   87.062   83.433   1.00   24.86   C   ATOM   13856   C   VAIL   D   386   22.583   87.590   82.559   1.00   25.15   C   ATOM   13856   C   ATOM   13856   C   ATOM   13856   C   ATOM   13856   C   ATOM   13866   CB   GIN   D   387   22.983   87.360   80.103   1.00   25.15   C   ATOM   13869   CD   GIN   D   387   24.863   87.462   80.103   79.790   79.277   1.00   25.28   C   ATOM   13869   CD   GIN   D   387   24.186   83.364   78.966   1.00   25.13   N   ATOM   13869   CD   GIN   D   387   24.186   83.364   78.962   79.794   1.00   25.18   C   ATOM   13886   CD   GIN   D   387   24.186   83.364   78.999   79.901	MOTA													
ADDITION   13820   CC														Č
ATOM   13823   CD   PRO   D   384   24.989   88.072   90.778   1.00   27.08   C   C   ATOM   13826   C   PRO   D   384   25.819   87.395   87.484   1.00   26.70   C   ATOM   13828   N   ASN   D   385   26.387   87.484   1.00   25.76   C   ATOM   13830   CA   ASN   D   385   26.387   87.648   1.00   25.76   C   ATOM   13832   CB   ASN   D   385   26.387   87.648   1.00   25.76   C   C   ATOM   13832   CB   ASN   D   385   27.162   85.376   85.639   1.00   25.76   C   ATOM   13835   CG   ASN   D   385   27.162   85.376   85.639   1.00   25.58   C   ATOM   13836   ODI   ASN   D   385   28.909   85.960   86.047   1.00   25.58   C   ATOM   13836   ODI   ASN   D   385   25.125   86.321   87.233   1.00   25.65   N   ATOM   13841   C   ASN   D   385   25.125   86.321   84.479   1.00   25.65   N   ATOM   13842   N   VAL   D   386   24.043   87.062   83.641   1.00   25.82   O   ATOM   13844   CA   VAL   D   386   24.043   87.062   84.746   1.00   25.21   C   ATOM   13846   CB   VAL   D   386   24.043   87.062   83.641   1.00   25.21   C   ATOM   13846   CB   VAL   D   386   24.043   87.062   83.843   1.00   24.86   C   ATOM   13852   CG2   VAL   D   386   22.582   87.584   84.606   1.00   25.07   C   ATOM   13856   CC   VAL   D   386   22.988   87.590   82.559   1.00   25.15   C   ATOM   13856   CC   VAL   D   386   22.988   87.590   82.559   1.00   25.15   C   ATOM   13856   CC   VAL   D   386   23.303   88.783   82.506   1.00   25.15   C   ATOM   13868   CD   GIN   D   387   22.983   87.360   80.103   1.00   25.15   C   ATOM   13869   CD   GIN   D   387   22.983   87.360   80.103   1.00   25.15   C   ATOM   13869   CD   GIN   D   387   22.983   87.360   80.103   1.00   25.15   C   ATOM   13869   CD   GIN   D   387   24.866   83.364   79.502   1.00   25.15   C   ATOM   13869   CD   GIN   D   387   24.866   83.467   79.727   1.00   25.28   C   ATOM   13869   CD   GIN   D   387   24.866   83.639   79.290   1.00   26.40   C   ATOM   13880   CC   GIN   D   387   24.866   83.364   79.509   1.00   26.63   C   ATOM   13890														č
ATOM 13827 C PRO D 384 25.819 87.395 87.484 1.00 26.70 C ATOM 13828 N ASN D 385 26.397 87.525 1.00 26.88 O ATOM 13828 N ASN D 385 26.397 87.611 86.298 1.00 25.93 N ATOM 13830 CA ASN D 385 26.444 86.662 85.198 1.00 25.576 C ATOM 13830 CA ASN D 385 27.162 85.376 85.639 1.00 25.58 C ATOM 13835 CG ASN D 385 28.619 85.560 87.233 1.00 25.58 C ATOM 13836 OD1 ASN D 385 29.548 85.537 85.661 1.00 25.58 C ATOM 13836 OD1 ASN D 385 29.548 85.537 85.061 1.00 25.58 C ATOM 13830 OD1 ASN D 385 29.548 85.537 85.061 1.00 25.55 N ATOM 13840 C ASN D 385 29.548 85.537 85.061 1.00 25.65 N ATOM 13840 C ASN D 385 29.548 85.537 85.061 1.00 25.63 N ATOM 13841 C ASN D 385 29.548 85.537 85.061 1.00 25.63 C ATOM 13844 C ASN D 385 25.125 86.321 84.479 1.00 25.63 C ATOM 13846 CB VALD 386 22.814 86.907 83.937 1.00 25.82 O ATOM 13846 CB VALD 386 22.814 86.907 83.937 1.00 25.52 N ATOM 13846 CB VALD 386 22.814 86.907 83.937 1.00 25.57 C ATOM 13846 CB VALD 386 22.814 86.907 83.937 1.00 25.57 C ATOM 13857 C C2 VALD 386 22.398 87.548 84.606 1.00 25.57 C ATOM 13856 C VALD 386 22.398 87.542 83.843 1.00 24.86 C ATOM 13857 C VALD 386 22.398 87.508 82.559 1.00 25.15 C ATOM 13857 C VALD 386 22.398 87.508 82.559 1.00 25.15 C ATOM 13856 C AND 387 22.793 88.7360 80.103 1.00 25.50 C ATOM 13857 C VALD 386 22.988 87.590 82.559 1.00 25.15 C ATOM 13856 C G GLN D 387 22.983 87.360 80.103 1.00 25.50 C ATOM 13856 C G GLN D 387 22.983 87.360 80.103 1.00 25.50 C ATOM 13856 C G GLN D 387 24.863 84.786 89.799 82.559 1.00 25.51 C ATOM 13868 CD GLN D 387 24.863 84.899 87.590 82.559 1.00 25.51 C ATOM 13868 CD GLN D 387 24.863 84.899 87.590 82.559 1.00 25.51 C ATOM 13867 C G GLN D 387 24.872 88.893 87.360 80.103 1.00 25.50 C ATOM 13867 C G GLN D 387 24.872 88.893 87.360 80.103 1.00 25.50 C ATOM 13867 C G GLN D 387 24.872 88.893 87.360 80.103 1.00 25.50 C ATOM 13860 CD GLN D 387 24.872 88.893 87.360 80.103 1.00 25.50 C ATOM 13880 C GLN D 387 24.872 88.893 87.360 80.103 1.00 25.50 C ATOM 13880 C G GLN D 387 24.866 89.79 89.991 89.991 89.991 89.991 89.991 89.991 89.991 89.991														č
ATOM   13828   N														Č
ATOM   13828   N   ASN   D   385   26.387   87.641   86.298   1.00   25.93   N   ATOM   13832   CB   ASN   D   385   26.444   86.662   85.198   1.00   25.76   C   ATOM   13832   CB   ASN   D   385   27.162   85.376   85.639   1.00   25.58   C   ATOM   13835   CD   ASN   D   385   28.619   85.560   86.047   1.00   25.58   C   ATOM   13836   CD   ASN   D   385   28.619   85.560   86.047   1.00   25.55   C   ATOM   13837   ND2   ASN   D   385   28.909   85.960   87.233   1.00   25.65   N   ATOM   13840   C   ASN   D   385   25.104   85.409   83.641   1.00   25.63   C   ATOM   13841   O   ASN   D   385   25.104   85.409   83.641   1.00   25.63   C   ATOM   13842   N   AXD   D   386   24.043   87.062   84.745   1.00   25.29   N   ATOM   13846   CR   AXD   D   386   22.814   86.907   33.937   1.00   25.21   C   ATOM   13845   CV   AXD   D   386   22.814   86.907   33.937   1.00   25.21   C   ATOM   13852   CG2   VAL   D   386   22.984   87.590   82.559   1.00   25.54   C   ATOM   13858   CV   AXD   D   386   22.988   87.590   82.559   1.00   25.54   C   ATOM   13857   O   AXD   D   386   23.303   88.783   82.506   1.00   24.96   C   ATOM   13858   N   GUN   D   387   22.750   86.850   81.467   1.00   25.55   C   ATOM   13850   C   GUN   D   387   22.750   86.850   81.467   1.00   25.55   C   ATOM   13860   CD   GUN   D   387   22.750   86.850   81.467   1.00   25.50   C   ATOM   13860   CD   GUN   D   387   22.750   86.850   81.467   1.00   25.55   C   ATOM   13860   CD   GUN   D   387   22.750   86.850   81.467   1.00   25.50   C   ATOM   13860   CD   GUN   D   387   22.750   86.850   81.467   1.00   25.50   C   ATOM   13860   CD   GUN   D   387   24.663   84.237   80.274   1.00   25.50   C   ATOM   13860   CD   GUN   D   387   24.663   84.237   80.274   1.00   25.50   C   ATOM   13870   CD   GUN   D   387   24.663   84.237   80.979   25.50   1.00   25.50   C   ATOM   13870   CD   GUN   D   387   24.663   84.237   87.922   1.00   25.50   C   C   ATOM   13870   CD   GUN   D   387   24.663   84.237   87.922   1.00														
ATOM   13830   CA   ASN D   385   26.444   86.662   85.198   1.00   25.76   C														
ATOM 13832 CB ASN D 385										85.198				С
ATOM 13836 ODI ASN D 385							27.	162	85.376					C
ATOM 13837 ND2 ASN D 385			CG	ASN	D	385								
ATOM 13840 C ASN D 385	ATOM													
ATOM 13841 O ASN D 385	MOTA													
ATOM 13842 N VAL D 386														
ATOM 13844 CA VAL D 386														
ATOM 13846 CB VAL D 386														
ATOM 13848 CG1 VAL D 386														č
ATOM 13852 CG2 VAL D 386														
ATOM 13856 C VAL D 386 22.988 87.590 82.559 1.00 25.15 C ATOM 13858 N GLN D 387 22.750 86.850 81.467 1.00 24.96 O ATOM 13858 N GLN D 387 22.983 87.360 80.103 1.00 25.50 C ATOM 13860 CA GLN D 387 22.983 87.360 80.103 1.00 25.50 C ATOM 13862 CB GLN D 387 24.866 86.270 79.227 1.00 25.28 C ATOM 13868 CD GLN D 387 24.863 84.237 80.274 1.00 25.18 C ATOM 13869 OE1 GLN D 387 24.863 84.237 80.274 1.00 25.18 C ATOM 13870 NE2 GLN D 387 24.863 84.237 80.274 1.00 25.79 O ATOM 13873 C GLN D 387 25.012 83.997 81.559 1.00 26.40 N ATOM 13873 C GLN D 387 21.742 87.918 79.384 1.00 25.83 C ATOM 13875 N GLU D 388 20.544 87.585 79.875 1.00 25.83 C ATOM 13877 CA GLU D 388 18.462 86.968 78.644 1.00 25.87 O ATOM 13877 CA GLU D 388 18.462 86.968 78.644 1.00 26.39 C ATOM 13885 CD GLU D 388 18.462 86.968 78.644 1.00 26.39 C ATOM 13885 CD GLU D 388 18.462 86.968 78.644 1.00 26.40 C ATOM 13886 OE1 GLU D 388 18.1066 84.696 77.202 1.00 26.40 C ATOM 13888 C GLU D 388 18.706 84.096 77.202 1.00 26.62 C C ATOM 13889 C GLU D 388 18.066 84.616 76.158 1.00 26.640 C ATOM 13889 C G GLU D 388 18.402 88.796 80.370 1.00 26.640 C ATOM 13889 C G GLU D 388 18.402 88.796 80.370 1.00 26.640 C ATOM 13889 C G GLU D 388 18.406 84.616 76.158 1.00 25.94 C ATOM 13889 C G GLU D 388 18.406 84.616 76.158 1.00 25.94 C ATOM 13889 C G GLU D 388 18.406 84.616 76.158 1.00 25.94 C ATOM 13889 C G GLU D 388 18.406 84.616 76.158 1.00 25.94 C ATOM 13889 C G GLU D 388 18.406 84.616 76.158 1.00 25.94 C ATOM 13899 C D ROD 389 18.991 89.901 80.910 1.00 26.63 C C ATOM 13899 C D ROD 389 18.991 89.901 80.910 1.00 26.81 C ATOM 13899 C D ROD 389 18.999 89.901 80.910 1.00 26.81 C ATOM 13990 C G PRO D 389 17.033 91.310 81.594 1.00 27.02 C ATOM 13990 C G PRO D 389 17.033 91.310 81.594 1.00 27.22 C ATOM 13990 C G GLY D 390 15.659 92.210 79.741 1.00 27.22 C ATOM 13990 C G GLY D 390 15.659 92.210 79.741 1.00 27.22 C ATOM 13990 C G GLY D 390 15.659 92.210 79.741 1.00 27.23 C ATOM 13991 C A ARG D 391 14.846 88.808 79.659 1.00 26.85 C ATOM 13991 C A ARG D 391 14.846 88.808 79.659 1.00 26.85 C AT														С
ATOM 13857 O VAL D 386 23.303 88.783 82.506 1.00 24.96 O ATOM 13860 CA GLN D 387 22.983 87.360 80.103 1.00 25.50 C ATOM 13860 CA GLN D 387 22.983 87.360 80.103 1.00 25.50 C ATOM 13865 CG GLN D 387 24.872 85.665 79.794 1.00 25.18 C ATOM 13868 CD GLN D 387 24.872 85.665 79.794 1.00 25.18 C ATOM 13869 CE GLN D 387 24.872 85.665 79.794 1.00 25.18 C ATOM 13869 CE GLN D 387 24.863 84.237 80.274 1.00 25.18 C ATOM 13870 NE2 GLN D 387 24.186 83.364 79.502 1.00 25.79 O ATOM 13870 NE2 GLN D 387 25.012 83.997 81.559 1.00 26.40 N ATOM 13873 C GLN D 387 21.742 87.918 79.384 1.00 25.83 C ATOM 13875 N GLU D 388 20.544 87.585 79.875 1.00 25.87 O ATOM 13875 N GLU D 388 19.297 88.098 79.290 1.00 26.42 C ATOM 13875 CB GLU D 388 19.297 88.098 79.290 1.00 26.42 C ATOM 13885 CD GLU D 388 18.482 86.968 78.644 1.00 26.39 C ATOM 13885 CD GLU D 388 19.135 86.340 77.418 1.00 26.40 C ATOM 13886 OEI GLU D 388 18.706 84.896 77.202 1.00 26.62 C ATOM 13886 OEI GLU D 388 18.066 84.616 76.158 1.00 25.94 O ATOM 13889 C GLU D 388 18.066 84.616 76.158 1.00 25.94 O ATOM 13889 CA GLU D 388 18.492 88.796 80.370 1.00 26.62 C C ATOM 13889 CA GLU D 388 18.492 89.901 80.910 1.00 26.63 C ATOM 13889 CA GLU D 388 18.492 89.901 80.910 1.00 26.63 C ATOM 13890 C GLU D 388 18.492 89.901 80.910 1.00 26.66 C C ATOM 13890 C GLU D 389 18.341 90.666 82.023 1.00 26.81 N ATOM 13890 CA FRO D 389 18.341 90.666 82.023 1.00 26.81 N ATOM 13890 CA FRO D 389 18.341 90.666 82.023 1.00 26.81 N ATOM 13890 CA FRO D 389 19.406 91.624 82.451 1.00 26.85 C ATOM 13990 C G PRO D 389 19.406 91.624 82.451 1.00 26.85 C ATOM 13990 C G GLY D 390 16.904 91.668 80.294 1.00 27.20 O ATOM 13990 C G GLY D 390 16.509 91.193 79.814 1.00 27.20 C ATOM 13990 C G GLY D 390 16.509 91.193 79.814 1.00 27.20 C ATOM 13990 C G GLY D 390 16.509 91.193 79.814 1.00 27.20 C ATOM 13990 C G GLY D 390 16.509 91.193 79.814 1.00 27.20 C ATOM 13990 C G GLY D 390 16.509 91.193 79.814 1.00 27.27 C C ATOM 13991 C A ARG D 391 14.856 86.794 76.294 1.00 27.25 C ATOM 13991 C A ARG D 391 14.856 86.794 76.294 1.00 27.25 C ATOM											1.00	25.15		
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ATOM 13924 NE ARG D 391 14.388 85.448 76.885 1.00 27.35 N ATOM 13926 CZ ARG D 391 14.920 84.377 76.292 1.00 26.90 C				ARG	; E	391	1	4.356	86.794	76.294				
ATOM 13926 CZ ARG D 391 14.920 84.377 76.292 1.00 26.90 C		13924	NE											
ATOM 13927 NH1 ARG D 391 15.463 84.468 /5.0/2 1.00 26.64 N	MOTA	13926												
	MOTA	13927	NH	L_ARG	<u> </u>	391	1	5.463	84.468	15.072	1.00	20.04	<del></del>	TA TA

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	13930 13933 13934 13935 13937 13945 13945 13950 13951 13953 13955 13964 13964 13965 13966 13966 13966 13976 13977 13978 13978 13980	NH2 CO NCA CB CG2 CO NCA CB CCD OE2 CO NCA CCB CC ON CCB CCB CCB CCB CCB CCB CCB CCB CCB CC	ARG ARG VAL VAL VAL VAL VAL GLU GLU GLU GLU GLU GLU GLU ALA ALA ALA ALA LEU	DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD		14.902 13.671 12.688 14.569 14.401 15.734 15.490 16.599 13.350 12.525 13.375 12.383 12.675 11.466 11.775 11.975 11.975 11.990 10.969 10.010 10.859 9.551 9.694 8.870 7.534 9.774 9.333	90.303 89.967 89.785 88.727 88.637 87.767 86.545	76.920 81.101 81.346 82.040 83.448 84.259 85.798 83.846 84.141 84.886 83.861 84.364 83.754 82.130 80.968 82.359 83.987 84.862 82.706 82.113 80.556 82.746 82.746 82.840 83.824 83.824	1.00 26.29 1.00 26.54 1.00 26.65 1.00 26.65 1.00 26.51 1.00 27.06 1.00 26.65 1.00 27.26 1.00 27.26 1.00 27.21 1.00 27.21 1.00 27.50 1.00 27.64 1.00 28.08 1.00 28.08 1.00 28.18 1.00 28.07 1.00 27.25 1.00 26.65 1.00 26.65
ATOM	13983	CG	LEU			10.452 10.912	85.505 85.050	83.806 82.424	1.00 26.77 1.00 26.79
ATOM	13985		LEU !	D 395		12.316	84.477	82.513	1.00 28.79
ATOM ATOM	13989	CD2				9.942	84.033	81.850	1.00 27.09
ATOM	13993 13994	С 0	LEU I			8.912	86.845	85.283	1.00 26.49
ATOM	13995	N	GLN I			7.991 9.580	86.214	85.839	1.00 26.38
ATOM	13997	CA	GLN I		•	9.301	87.829 88.271	85.881 87.252	1.00 26.22
MOTA	13999	CB	GLN I			10.475	89.114	87.767	1.00 26.30 1.00 25.98
ATOM	14002	CG		396		10.339	89.635	89.210	1.00 25.82
ATOM ATOM	14005	CD	GLN I	396		11.449	90.611	89.590	1.00 24.18
ATOM	14006 14007	NE2	GLN I			12.298	90.291	90.437	1.00 21.35
ATOM	14010	C	GLN I			11.449 8.003	91.797 89.088	88.947 87.354	1.00 21.28
ATOM	14011	ŏ	GLN I			7.320	89.018	88.380	1.00 26.61 1.00 26.42
ATOM	14012	N	GLN I			7.670	89.843	86.289	1.00 26.42
ATOM	14014	CA	GLN I	-		6.553	90.798	86.317	1.00 26.71
ATOM ATOM	14016 14019	CB CG	GLN I			6.525	91.683	85.053	1.00 26.94
ATOM	14022	CD	GLN I			5.948 6.983	93.094 94.187	85.271	1.00 27.02
ATOM	14023		GLN I			7.135	94.187	85.067 83.958	1.00 26.83 1.00 26.15
MOTA	14024	NE2	GLN I			7.696	94.551	86.137	1.00 26.15
ATOM	14027	С	GLN I			5.185	90.133	86.519	1.00 26.73
ATOM	14028	0	GLN I			4.417	90.588	87.358	1.00 26.66
ATOM ATOM	14029 14030	N CA	PRO I	398		4.856	89.091	85.750	1.00 26.78
ATOM	14030	CB	PRO D			3.631 3.774	88.315	86.008	1.00 26.61
MOTA	14035	CG	PRO I			4.591	87.115 87.622	85.071 83.934	1.00 26.74
ATOM	14038	CD	PRO T	398		5.573	88.578	84.563	1.00 26.78 1.00 26.84
ATOM	14041	C	PRO D			3.504	87.830	87.448	1.00 26.29
ATOM ATOM	14042 14043	0	PRO D			2.415	87.949	88.004	1.00 26.09
ATOM	14045	N CA	TYR D			4.584 4.533	87.302	88.029	1.00 26.04
ATOM	14047	CB	TYR D			5.810	86.789 86.029	89.398 89.765	1.00 25.83 1.00 25.70
MOTA	14050	CG	TYR D			5.965	84.786	88.928	1.00 25.70

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ATOM	14051	CD1	αVm	<b>D</b>	300		_	000	04 550				
_			TYR					.900	84.732	87.903		26.66	
MOTA	14053	CE1						.039	83.601	87.104	1.00	26.67	
MOTA	14055	cz	TYR				6	.226	82.506	87.322		26.59	
MOTA	14056	OH	TYR	D	399		6	.391	81.392	86.526		25.95	
MOTA	14058	CE2	TYR					.274	82.532	88.338			
MOTA	14060	CD2						.144				26.51	
ATOM	14062								83.677	89.130	1.00	26.33	
		C	TYR					.286	87.911	90.365		25.44	
ATOM	14063	0	TYR				3	.615	87.710	91.377	1.00	26.13	
MOTA	14064	N	VAL	D	400		4	.824	89.089	90.050		25.12	
MOTA	14066	CA	VAL	D	400			. 635	90.269	90.888		25.22	
ATOM	14068	CB	VAL					. 652	91.407	90.531			
MOTA	14070		VAL					.359	92.672			25.28	
MOTA	14074	CG2								91.342		25.47	
ATOM	14078							.101	90.957	90.799		25.33	
		C	VAL					.170	90.751	90.794	1.00	24.85	
MOTA	14079	0	VAL					.553	91.087	91.808	1.00	24.57	
MOTA	14080	N	GLU				2	.618	90.751	89.577	1.00	24.80	
MOTA	14082	CA	${\tt GLU}$	D	401		1	.219	91.153	89.324		24.54	
ATOM	14084	CB	GLU	D	401			.950	91.243	87.821		24.93	
MOTA	14087	CG	GLU					.589	92.435	87.120		25.22	
MOTA	14090	CD	GLU					.648	92.251				•
ATOM	14091	OE1								85.616		26.82	
ATOM:								.925	91.366	85.092		28.67	
	14092	OE2						.411	92.988	84.949	1.00	27.86	
MOTA	14093	С	GLU					.176	90.182	89.918	1.00	24.23	
ATOM	14094	0	GLU				-1	.003	90.581	90.290	1.00	25.03	
MOTA	14095	N	ALA	D	402		0	.621	88.910	90.002		23.46	
MOTA	14097	CA	ALA	D	402			. 117	87.820	90.670		22.74	
ATOM	14099	CB	ALA					489	86.490	90.270			
ATOM	14103	C	ALA					.109				22.65	
MOTA	14104	õ	ALA						87.951	92.216		22.20	
ATOM	14105							.144	87.757	92.860	1.00	21.72	
		N	LEU					.047	88.270	92.804	1.00	21.80	
ATOM	14107	CA	LEU					.153	88.378	94.275	1.00	21.69	
MOTA	14109	CB	LEU				2.	.614	88.365	94.764	1.00	21.32	
MOTA	14112	CG	LEU		403		2.	. 877	88.644	96.263		20.59	
ATOM	14114		LEU		403		2.	.174	87.643	97.193		19.48	
ATOM	14118	CD2	LEU	D ·	403			.374	88.685	96.553		19.77	
MOTA	14122	С	LEU					460	89.643	94.768		21.92	
MOTA	14123	0	-LEU		403			014	89.687	95.903			
ATOM	14124	N	LEU					370				21.96	
MOTA	14126	CA	LEU						90.655	93.897		22.17	
ATOM	14128	CB						.155	91.953	94.316		22.36	
ATOM			LEU					215	93.045	93.303		21.86	
	14131	CG	LEU					498	94.394	93.455	1.00	21.89	
MOTA	14133		LEU					.338	95.016	94.838	1.00	21.21	
MOTA	14137	CD2	LEU				-0.	009	95.367	92.391		22.61	
ATOM	14141	С	LEU				-1.	665	91.875	94.510		22.77	
MOTA	14142	0	LEU	D	404		-2.	213	92.426	95.471		22.95	
ATOM	14143	N	SER	D 4	405			328	91.181	93.587		23.38	
MOTA	14145	CA	SER					775	91.032	93.623			
ATOM	14147	CB	SER					296				23.72	
ATOM	14150	OG	SER						90.563	92.261		23.64	
ATOM	14152							049	91.544	91.265		23.54	
		C	SER					174	90.041	94.704		24.14	
ATOM	14153	0	SER					198	90.211	95.360	1.00	24.22	
ATOM	14154	N	TYR	D 4	406		-3.	367	89.005	94.878		24.67	
MOTA	14156	CA	TYR				-3.	599	88.032	95.935		25.59	
ATOM	14158	CB	TYR	D 4	406			493	86.973	95.951		25.65	
ATOM	14161	CG	TYR	D 4	106	•		802	85.800	96.852		26.18	
MOTA	14162		TYR					641	84.777	96.425			
ATOM	14164		TYR					934	83.698			27.08	
ATOM	14166	CZ	TYR							97.246		27.03	
ATOM	14167	ÓН	TYR					392	83.637	98.509		26.80	
ATOM	14169							685	82.570	99.320		26.96	
ATOM			TYR					565	84.645	98.962		27.03	
111 011	14171	CDZ	TYR	ט 4	400		-2.	274	85.718	98.132	1.00	26.61	

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ATOM	14173	С	TYR	D 406		-3.682	88.684	97.324	1.00 26.22	
ATOM	14174	0	TYR			-4.589	88.364		1.00 26.22	
ATOM	14175	N	THR			-2.735	89.575		1.00 26.85	
ATOM	14177	CA	THR			-2.709	90.253		1.00 20.83	
ATOM	14179	CB	THR	D 407	•	-1.346	90.951		1.00 26.75	
ATOM	14181	OG1		D 407		-0.995	91.848			
ATOM	14183	CG2	THR	D 407		-0.209	89.952		1.00 25.68	
ATOM	14187	C	THR	D 407		-3.850	91.269		1.00 27.05	
ATOM	14188	0		D 407		-4.240		100.219	1.00 27.77	
ATOM	14189	N	ARG			-4.371	91.741		1.00 27.85	
ATOM	14191	CA		D 408		-5.540	92.624		1.00 28.43	
ATOM	14193	CB		D 408		-5.687	93.316			
ATOM	14196	CG		D 408		-4.740	94.472		1.00 29.01	
ATOM	14199	CD	ARG			-4.713	94.472		1.00 29.00	
ATOM	14202	NE		D 408		-5.018	96.400	94.949	1.00 29.14	
ATOM	14204	CZ	ARG			-4.275			1.00 28.56	
ATOM	14205		ARG			-3.165	97.384		1.00 29.15	
ATOM	14208	NH2		D 408		-4.648	97.124		1.00 30.30	
	14211	C		D 408			98.643		1.00 29.46	•
ATOM	14212	ŏ		D 408		-6.839 -7.776	91.881		1.00 29.68	
ATOM.	14213	N		D 409		-6.898	92.485		1.00 29.93	
ATOM	14215	CA		D 409		-8.078	90.586		1.00 30.33	
ATOM	14217	CB		D 409		-8.316	89.760		1.00 30.71	
ATOM	14219	CG1		D 409			88.743		1.00 30.70	
ATOM	14222	CD1		D 409		-8.597 -8.176	89.474	95.767	1.00 29.85	
ATOM	14226	CG2	TIE	D 409			88.693		1.00 28.92	
ATOM	14230	C		D 409		-9.487	87.800		1.00 30.58	
ATOM	14231	Ö		D 409		-7.967			1.00 31.33	
ATOM	14232	N		D 410		-8.972 -6.755	88.799	100.253		
ATOM	14234	CA		D 410			88.705	100.023	1.00 32.21	
ATOM	14236	CB		D 410 D 410		-6.568	88.131	101.354	1.00 32.89	
ATOM	14239	CG	TAG	D 410 ·		-5.117	87.679	101.573	1.00 32.85	•
ATOM	14242	CD		D 410		-4.868	87.026	102.929	1.00 33.02	
ATOM	14245	CE		D 410		-3.689	86.066	102.900	1.00 32.61	
ATOM	14248	NZ		D 410		-3.175	85.775	104.305	1.00 33.06	
ATOM	14252	C		D 410 D 410		-1.844	85.100	104.288		
ATOM	14253	Ö		D 410 D 410		-7.006	89.188	102.376	1.00 33.50	
ATOM	14254	N		D 410		-8.127	89.120	102.904	1.00 33.65	
ATOM	14256	CA		D 411		-6.151		102.593	1.00 33.98	
ATOM	14258	CB		D 411		-6.446	91.301	103.497	1.00 34.36	
ATOM	14261	CG		D 411		-5.413	91.354	104.636	1.00 34.63	
ATOM	14264	CD		D 411		-4.864	89.996	105.025	1.00 35.78	
ATOM	14267	NE	ARG	D 411	•	-4.140	89.958		1.00 37.58	
ATOM	14269	CZ	ANG I	D 411		-4.780	89.044	107.309	1.00 38.57	
ATOM	14270	NH1		D 411		-4.145	88.358	108.266	1.00 39.14	
ATOM	14273		ARG I			-2.819 -4.851	88.448	108.430	1.00 39.02	
ATOM	14276	C	ARC I	D 411			87.567	109.071	1.00 38.86	
ATOM	14277	ŏ		D 411		-6.476	92.631	102.717	1.00 34.11	
ATOM	14278	N		0 412		-5.430	93.253	102.501	1.00 34.15	
ATOM	14279	CA		0 412		-7.665	93.073	102.297	1.00 33.80	
ATOM	14281	CB		0 412		-7.804	94.381	101.635	1.00 33.58	
ATOM	14284	CG		0 412		-9.184	94.309	100.961	1.00 33.54	
ATOM	14287	CD		0 412		-9.790	92.996	101.355	1.00 33.66	
ATOM	14290	C				-8.960	92.385	102.430	1.00 33.77	
ATOM	14291		PRO I			-7.760	95.552	102.619	1.00 33.32	
ATOM	14291	O N	PRO I		•	-7.917		102.195	1.00 33.47	
ATOM	14292	N		413		-7.555	95.258		1.00 33.03	
ATOM		CA	GLN I			-7.507	96.264	104.963	1.00 32.59	
ATOM	14296	CB	GLN I			-8:324	95.793	106.182	1.00 32.65	
	14299	CG	GLN I			-9.648	95.069	105.852	1.00 32.48	
ATOM ATOM	14302	CD OF1	GLN I	413		-10.850	96.000	105.790	1.00 32.38	
HIOM	14303	ORT	GLN I	413		-11.115	96.622	104.758	1.00 32.10	

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ATOM	14304	NE2	GLN !	D	413	-11.587 96.084 106.891 1.00 32.01	N
MOTA	14307		GLN			-6.053 96.566 105.376 1.00 32.12	С
ATOM	14308	_	GLN			-5.771 97.638 105.930 1.00 32.43	0
MOTA	14309		ASP	D	414	-5.143 95.627 105.111 1.00 30.97	N
ATOM	14311		ASP			-3.724 95.823 105.377 1.00 30.31	С
ATOM	14313		ASP			-3.159 94.621 106.159 1.00 30.45	С
ATOM	14316				414	-1.724 94.844 106.639 1.00 30.71	С
ATOM	14317		ASP			-1.178 95.959 106.481 1.00 30.59	0
ATOM	14318		ASP			-1.053 93.950 107.193 1.00 33.64	0
ATOM	14319		ASP			-2.948 96.022 104.070 1.00 29.51	С
MOTA	14320		ASP			-2.345 95.079 103.543 1.00 29.27	0
ATOM	14321	Ŋ	GLN			-2.938 97.256 103.568 1.00 28.56	N
ATOM	14323	CA	GLN			-2.243 97.566 102.312 1.00 27.98	С
ATOM	14325	CB	GLN			-2.849 98.802 101.644 1.00 28.17	С
ATOM	14328	CG	GLN			-2.454 98.939 100.165 1.00 29.01	С
ATOM	14331	CD	GLN			-3.344 99.883 99.379 1.00 29.77	С
ATOM	14332		GLN			-3.842 100.880 99.915 1.00 30.21	0
MOTA	14333	NE2	GLN			-3.532 99.581 98.096 1.00 30.34	N
MOTA	14336	C	GLN			-0.725 97.757 102.438 1.00 27.08	С
ATOM	14337	ŏ	GLN	D	415	-0.072 98.088 101.450 1.00 27.03	0
ATOM	14338	N	LEU			-0.164 97.568 103.633 1.00 26.01	N
ATOM	14340	CA	LEU			1.287 97.634 103.817 1.00 25.35	С
ATOM	14342	CB	LEU			1.632 98.378 105.098 1.00 25.26	С
ATOM	14345	CG	LEU			1.305 99.868 105.023 1.00 25.38	С
ATOM	14347	CD1				1.586 100.518 106.361 1.00 26.29	C
ATOM	14351		LEU			2.090 100.548 103.906 1.00 24.59	С
ATOM	14355	C	LEU			1.916 96.251 103.846 1.00 24.93	C
MOTA	14356	ŏ			416	3.141 96.110 103.919 1.00 24.37	0
ATOM	14357	Ň			417	1.073 95.231 103.761 1.00 24.23	N
ATOM	14359	CA			417	1.545 93.865 103.770 1.00 23.87	С
ATOM	14361	CB			417	0.363 92.914 103.937 1.00 24.30	С
ATOM	14364	CG			417	0.738 91.459 103.953 1.00 24.85	С
ATOM	14367	CD			417	-0.239 90.589 103.143 1.00 26.32	С
ATOM	14370	NE			417	0.067 89.191 103.357 1.00 25.65	N
MOTA	14372	CZ			417	-0.120 88.563 104.500 1.00 25.52	С
ATOM	14373	NH1	ARG			-0.653 89.179 105.543 1.00 24.86	N
ATOM	14376		ARG			0.224 87.292 104.601 1.00 27.39	N
ATOM	14379	С			417	2.322 93.557 102.490 1.00 22.58	С
ATOM	14380	0	ARG	D	·417	3.385 92.950 102.555 1.00 21.77	0
MOTA	14381	N	PHE	D	418	1.807 93.987 101.341 1.00 21.50	N
MOTA	14383	CA	PHE	D	418	2.508 93.725 100.085 1.00 21.07	C
MOTA	14385	CB	PHE	D	418	1.691 94.131 98.860 1.00 20.69	C
MOTA	14388	CG			418	2.377 93.826 97.560 1.00 21.65	C
MOTA	14389		PHE			2.880 92.551 97.306 1.00 22.82	C
MOTA	14391	CE1	PHE	D	418	3.518 92.269 96.100 1.00 22.73	C
MOTA	14393	CZ			418	3.665 93.254 95.149 1.00 21.48	C
MOTA	14395		PHE			3.186 94.526 95.397 1.00 20.67	C
MOTA	14397	CD2	PHE			2.551 94.810 96.596 1.00 21.06	C
MOTA	14399	С			418	3.922 94.336 100.030 1.00 20.35	C
MOTA	14400	0			418	4.873 93.627 99.712 1.00 20.85	0
MOTA	14401	N			419	4.081 95.623 100.325 1.00 19.44	N
MOTA	14402	CA			419	5.415 96.222 100.322 1.00 19.00	C
MOTA	14404	CB			419	5.151 97.688 100.695 1.00 19.07	C
MOTA	14407	CG			419	3.708 97.920 100.399 1.00 19.03	C
ATOM	14410	CD			419	3.045 96.620 100.659 1.00 19.88	C
MOTA	14413	C			419	6.323 95.564 101.338 1.00 18.70	
MOTA		0			419	7.491 95.422 101.075 1.00 18.25	O N
ATOM					420	5.781 95.159 102.475 1.00 18.74	И
MOTA					420	6.570 94.525 103.509 1.00 19.10	C
MOTA					420	5.727 94.308 104.772 1.00 19.42	C
MOTA	14422	CG	ARG	ı C	420	5.610 95.531 105.690 1.00 21.39	C

ATOM	14425	CD	ARG D 42	1	5.506	05 171	107 474				
MOTA	14428	NE	ARG D 42				107.174		24.71		
ATOM	14430	CZ	ARG D 42	, 1	5.136	96.302	108.027	1.00	25.99		
ATOM	14431		1 ARG D 42	) . )	3.894		108.327	1.00	27.35		
MOTA	14434	NH	2 ARG D 42	) .	2.846	95.988	107.837	1.00	28.76		
ATOM		C	ARG D 420		3.692		109.124		28.38		
ATOM	14438	Ö			7.154		103.012	1.00	18.86		
ATOM	14439		ARG D 420		8.284		103.339	1.00	18.33		
ATOM		N	MET D 42		6.382		102.216	1.00	18.99		
ATOM	14441	CA	MET D 42:		6.832		101.635		19.13		
	14443	CB	MET D 42		5.700		100.862		19.64		
ATOM	14446	CG	MET D 42:		4.783	89.695	101.721		20.31		
ATOM	14449	SD	MET D 42		3.336		100.764		21.27		
ATOM	14450	CE	MET D 423		3.750	87.736	100.250	1.00	21.18		
ATOM	14454	С	MET D 421		7.973	91.422	100.674	1.00	18.77		
ATOM	14455	0	MET D 421		8.883	90.618	100.605	1.00	18.22		
MOTA	14456	N	LEU D 422	?	7.900	92.503	99.914		18.49		
ATOM	14458	CA	LEU D 422	?	8.961	92.834	98.985		19.09		
ATOM	14460	CB	LEU D 422	2	8.500	93.861	97.943		19.10	•	
ATOM	14463	CG	LEU D 422	:	7.224	93.541	97.168		19.10	•	
ATOM	14465	CD1	LEU D 422		6.874	94.710	96.311	1.00	19.36	•	
ATOM	14469	CD2	LEU D 422	2	7.385	92.288	96.330	1.00	20.66		•
MOTA	14473	С	LEU D 422	1	10.165	93.360	99.745	1.00	19.92		
ATOM	14474	0	LEU D 422		11.298	93.160		1.00	19.29		
ATOM	14475	N	MET D 423		9.930	94.020	99.322	1.00	19.59		
ATOM	14477	CA	MET D 423		11.037	94.491	100.8/4	1.00	19.59		
ATOM	14479	CB	MET D 423		10.549	94.491 J	101./14	1.00	20.09		
ATOM	14482	CG	MET D 423		9.777	95.321	102.908		20.43		
ATOM	14485	SD	MET D 423		10.620	96.590 1	102.599		23.17		
MOTA	14486	CE	MET D 423			97.852	101.626		29.21		
ATOM	14490	C,	MET D 423		12.328	97.743 1	102.213		28.12		
ATOM	14491	ŏ	MET D 423		11.861	93.310 1	102.246		19.20		
	. 14492	N	LYS D 424		13.019	93.459 1	102.573	1.00			
ATOM	14494	CA			11.260	92.137 1	102.313	1.00			
ATOM	14496		LYS D 424		11.970	90.937 1	102.758	1.00			
ATOM	14499	CB CG	LYS D 424		10.984	89.863 1	L03.164	1.00	20.40	•	
ATOM	14502		LYS D 424		10.073	90.273 1	L04.345	1.00	21.46		
ATOM	14505	CD	LYS D 424		10.796	90.295 1	105.693	1.00	24.24		
ATOM	14508	CE	LYS D 424		10.134	91.289 1	.06.695	1.00	26.61		
ATOM	14512	NZ C	LYS D 424		9.692	92.624 1	.06.067	1.00	28.24		
ATOM	14512		LYS D 424		12.949	90.380 1	.01.743	1.00	19.85		
ATOM		0	LYS D 424		13.913	89.731 1	.02.136	1.00		•	•
ATOM	14514	N	LEU D 425		12.718	90.642 1	.00.451	1.00	19.63		
ATOM	14516	CA	LEU D 425		13.709	90.377	99.398	1.00	19.13		
ATOM	14518 14521	CB	LEU D 425		13.155	90.746	98.007	1.00			
ATOM		CG	LEU D 425		11.926	90.004	97.484	1.00			
ATOM	14523	CDI	LEU D 425		11.445	90.629	96.155	1.00			
ATOM	14527		LEU D 425		12.229	88.521	97.335	1.00			
ATOM	14531	C	LEU D 425		14.997	91.170	99.605	1.00	18.76		
	14532	0	LEU D 425		16.080	90.714	99.259	1.00	18.22		
ATOM	14533	N	VAL D 426		14.852	92.383 1	00.117	1.00			
ATOM	14535	CA	VAL D 426		15.991	93.231 1	00.456	1.00	19.33		
MOTA	14537	CB	VAL D 426		15.564	94.666 1	888.00	1.00			
ATOM	14539	CG1	VAL D 426		16.794	95.574 1	00.987	1.00			
ATOM	.14543	CG2	VAL D 426		14.524	95.278	99.903	1.00	9.48		
ATOM	14547	C	VAL D 426		16.766	92.612 1	01.609	1.00	9 51		
ATOM	14548	0	VAL D 426	•	17.999	92.603 1	01.612	1.00	9 27		
ATOM	14549	N	SER D 427		16.022	92.094 1	02.584	1.00 1	9 50		
ATOM	14551	CA	SER D 427		16.618	91.452 1	03.728	1.00 1	0 64	•	
ATOM	14553	CB	SER D 427		15.560	91.076 1	04.771	1.00 1	10.7A		
MOTA	14556	OG	SER D 427		14.918	92.226 10	05.261	1.00 1			
MOTA	14558	C	SER D 427		17.359	90.217 10	03.268	1.00 1			
MOTA	14559	0	SER D 427		18.460	89.960 10	03.731	1.00 1			
								U I			

MOTA	14560	N	LEU	2 428		16	.768	00	163	100 350			
ATOM	14562	CA		0 428			.430	09. 80	260 260	102.350		0 19.60	
MOTA	14564	CB		2 428	•		.542	87	530	101.823		0 19.70	
MOTA	14567	CG		428			.371	86	853	100.527		0 19.32 0 18.01	
ATOM	14569	CD:					.341	86.	450	100.519		0 19.67	
MOTA	14573	CD					.845			102.306		0 17.49	
MOTA	14577	C	LEU 1				.798	88.	546	101.204		0 20.08	
ATOM	14578	0	LEU 1				.719	87.	768	101.389		0 20.31	
ATOM	14579	N		429		18.	. 952	89.	682	100.535		0 20.87	
ATOM	14581	CA	ARG I				. 265	90.	082	100.031		0 21.39	
ATOM	14583	CB	ARG I				.182		347		1.0	0 21.37	
MOTA MOTA	14586	CG	ARG I				.280		251			0 20.84	
ATOM	14589	CD	ARG I				.770		313		1.0	0 20.94	
ATOM	14592 14594	NE	ARG I				678		931			0 21.17	
MOTA	14595	CZ	ARG I L ARG I	1 429			610		228			0 18.65	
ATOM	14598	NHI	ARG I	1 429		19.	569		911			0 18.15	
ATOM	14601	C	ARG I				557	89.	829	94.090		0 18.92	
ATOM	14602	ŏ	ARG I				275 387	90.	298	101.143		0 22.40	
ATOM	14603	N	THR I				904	89.	070	101.024		0 23.69	
ATOM	14605	CA	THR I				838	90.	212	102.221		0 23.30	
ATOM	14607	CB	THR I				180	91.	171	103.329 104.395		0 23.82	
MOTA	14609	OG1					223	92.	537	103.948		0 23.63	
MOTA	14611	CG2					980	92	197	105.710	1.0	0 24.57	
ATOM	14615	С	THR D				283	89.	928	103.710		0 23.10 0 24.24	
ATOM	14616	0	THR D				434	89.	762	104.364		0 24.24	
MOTA	14617	N	LEU D	431			341	89.	014	104.117	1 0	0 24.90	
ATOM	14619	CA	LEU D	431			561	87.	716	104.729	1.00	0 24.97	
ATOM	14621	CB	LEU D				213			104.856	1.00	0 24.72	
MOTA	14624	CG	LEU D	431		19.	473	86.	920	106.203	1.00	25.30	
ATOM	14626		LEU D				058	87.	755	107.324	1.00	25.42	
ATOM ATOM	14630	CD2					988	87.	212	106.047	1.00	24.32	
ATOM	14634 14635	C	LEU D				546	86.	846	103.919		25.70	
ATOM	14636	O N	LEU D				233	86.	014	104.481		25.14	
ATOM	14638	CA	SER D				603	87.	060	102.602	1.00	26.94	
ATOM	14640	CB	SER D				599	86.	436	101.735		27.75	
ATOM	14643	OG	SER D				347 562	86.	119	100.264		27.96	
ATOM	14645	Ċ	SER D				020	85.		99.649		29.47	
MOTA	14646	Ō.	SER D				918	25	000	102.101 102.101	1.00	28.16	
ATOM	14647	N	SER D			25	241	88	112	102.101		28.43	•
ATOM	14649	CA	SER D				575	88.	527	102.835	1.00	28.31	
ATOM	14651	CB	SER D				699	90.0	342	102.796	1.00	28.49	
ATOM	14654	OG	SER D				638	90.4	478	101.451		28.91	
ATOM	14656	С	SER D		2	26.	950			104.216		28.47	
ATOM	14657	0	SER D		2	28.0	082	87.5	336	104.426		28.09	
MOTA	14658	N	VAL D			25.9		87.9	926	105.145	1.00	28.89	
ATOM	14660	CA	VAL D	434	2	26.2	218	87.2	262	106.442		29.21	
ATOM ATOM	14662	CB	VAL D	434	2	25.0	005	87.4	135	107.382		29.01	
ATOM	14664	CG1		434		25.0		86.4	181	108.564	1.00	29.49	
ATOM	14668		VAL D			24.9		88.8	365	107.878		29.74	
MOTA	14672 14673	C O	VAL D			26.5		85.7	767	106.236	1.00	29.32	
ATOM	14674	N	VAL D HIS D			27.4				106.942	1.00	29.25	
ATOM	14676	CA	HIS D		2	25.9	234	85.1		105.257	1.00	29.25	
ATOM	14678	CB	HIS D			26.2 25.2		83.7		104.984	1.00	29.62	
ATOM	14681	CG	HIS D			25.2 25.6				103.997		29.47	
ATOM	14682		HIS D	435		.5. d		81.8		103.432 102.171		30.09	
ATOM	14684		HIS D			26.5		80 4	34	102.171		31.27	
MOTA	14686	NE2	HIS D	435	2	6.2	202	79.7	32	101.946	1.00	32.03 31.67	
ATOM	14688	CD2	HIS D	435	2	25.6			74	103.020	1 00	30.51	
											1.00	20.31	

ATOM	14 [.] 690	С	י פדע	D 435		27 654	00 560	104 450		
ATOM	14691					27.654	83.563	104.460	1.00 29.8	
ATOM	14691	0		D 435		28.359		104.865	1.00 29.4	
		N.		0 436		28.080		103.593	1.00 30.2	
ATOM	14694	CA		D 436.		29.422		103.014	1.00 30.9	
ATOM	14696	CB		D 436	•	29.543		101.874	1.00 30.7	
ATOM	14699	OG		D 436		28.677		100.821	1.00 31.2	21
ATOM	14701	С		D 436		30.525	84.678	104.039	1.00 31.3	
ATOM	14702	0	SER I	2 436		31.659	84.236	103.846	1.00 31.6	66
ATOM	14703	N		D 437		30.190	85.384	105.116	1.00 31.6	
ATOM	14705	CA		3 437	•	31.111		106.232	1.00 31.8	
MOTA	14707	CB	GLU I	3 437		30.667		107.096	1.00 32.3	
MOTA	14710	CG	GLU I	3 437		30.690		106.378	1.00 33.2	
ATOM	14713	CD		3 437		30.107		107.222	1.00 34.4	
ATOM	14714	OE1				30.744		107.285	1.00 35.9	
MOTA	14715	OE2				29.024		107.825	1.00 34.2	
ATOM	14716	С		3 437		31.203		107.101	1.00 31.5	
MOTA	14717	O		0 437		32.249		107.703	1.00 31.3	
MOTA	14718	N		438		30.109		107.183	1.00 31.1	
ATOM	14720	CA		438		30.120		107.103	1.00 31.3	
ATOM	14722	CB		438		28.695		108.135	1.00 30.9	
ATOM	14725	CG	GLN I			28.607	80 274	108.133		
ATOM	14728	CD		438		29.016		110.089	1.00 31.2	
ATOM	14729	OE1				28.244		111.002	1.00 31.7	
ATOM	14730	_	GLN I			30.225		110.312	1.00 31.0	
ATOM	14733	C	GLN I			30.223			1.00 29.9	
ATOM	14734	ŏ	GLN I			31.746		107.173 107.819	1.00 30.8	
ATOM	14735	N	VAL I			30.906			1.00 30.6	
ATOM	14737	CA	VAL I			31.718		105.841	1.00 30.5	
ATOM	14739	CB	VAL I				00.257	105.086	1.00 30.7	
ATOM	14741	CG1				31.245		103.598	1.00 30.8	
ATOM	14745		VAL D			29.738		103.528	1.00 30.2	
ATOM	14749	C	VAL E			31.684		102.687	1.00 31.2	
ATOM	14750	Ö	VAL I			33.222		105.182	1.00 30.4	
ATOM	14751	N				34.065		105.219	1.00 29.9	
ATOM	14753	CA	PHE D			33.534	81.899	105.276	1.00 30.3	
ATOM	14755	CB	PHE D			34.904		105.518	1.00 30.4	
ATOM	14758		PHE D			35.013		105.270	1.00 30.4	
ATOM	14759	CG				36.393		104.877	1.00 30.6	
ATOM	14761	CDI	PHE D			36.805		103.550	1.00 30.8	
ATOM	14763	CZ	PHE D			38.082		103.176	1.00 31.3	
ATOM	14765	CE2				38.962		104.138	1.00 31.4	
MOTA	14767					38.559		105.471	1.00 31.1	
ATOM	14769		PHE D			37.282		105.831	1.00 30.4	
ATOM	14770	С 0	PHE D			35.401		106.936	1.00 30.4	
ATOM	14771		PHE D			36.591		107.147	1.00 29.9	
ATOM		N	ALA D			34.478		107.898	1.00 30.7	
ATOM	14773 14775	CA	ALA D			34.781		109.285	1.00 30.8	
ATOM		СВ	ALA D			33.634		110.209	1.00 30.8	-
ATOM	14779	C	ALA D			35.053	80.133	109.441	1.00 30.9	
ATOM	14780	0	ALA D			35.767		110.356	1.00 30.8	
	14781	N	LEU D			34.467	79.315	108.565	1.00 31.1	
MOTA	14783	CA	LEU D			34.731	77.873	108.555	1.00 31.3	
MOTA	14785	CB	LEU D			33.725		107.664	1.00 31.2	
MOTA	14788	CG	LEU D			32.238		108.022	1.00 30.8	
ATOM	14790	CDI	LEU D	442		31.386		106.887	1.00 30.8	
ATOM	14794		LEU D			31.890		109.330	1.00 30.2	
ATOM	14798	C	LEU D			36.158		108.071	1.00 31.5	
ATOM	14799	0	TEO D			36.813	76.673	108.564	1.00 31.5	3
MOTA	14800	N	ARG D			36.628		107.116	1.00 31.7	
ATOM	14802	CA	ARG D			37.975	78.262	106.561	1.00 31.9	5
ATOM	14804	CB	ARG D			38.206		105.420	1.00 31.9	
ATOM	14807	CG	ARG D	443		37.193	79.183	104.280	1.00 31.9	
			,							

ATOM	14810	CD	ARG	D	443	37.816	79.070	102.902	1.00 32.22	С
ATOM	14813		ARG			38.495		102.709	1.00 32.12	N
ATOM	14815		ARG			38.678		101.533	1.00 31.98	Ċ
	14816		ARG	_	_	38.243		100.398	1.00 31.78	N
MOTA			ARG			39.307		101.492	1.00 32.13	N
MOTA	14819					39.056		107.628	1.00 32.19	č
MOTA	14822	C	ARG						1.00 32.19	ŏ
MOTA	14823	0	ARG			39.853		107.877	1.00 32.10	N
MOTA	14824	N	LEU			39.072		108.246		C
MOTA	14826	CA	LEU			40.090		109.235	1.00 32.40	
MOTA	14828	CB	LEU			41.001		108.692	1.00 32.38	. C
MOTA	14831	CG	LEU			42.329		108.016	1.00 32.37	C
MOTA	14833	CD1	LEU	D	444	42.378		106.562	1.00 32.45	C
ATOM	14837	CD2	LEU	D	444	43.551		108.782	1.00 31.94	С
MOTA	14841	С	LEU	D	444	39.412		110.529	1.00 32.42	C
ATOM	14842	0	LEU	D	444	38.555	79.740	111.067	1.00 32.44	0
ATOM	14843	N	LYS			34.947	72.050	107.030	1.00 34.64	N
MOTA	14845	CA	LYS			34.907	71.929	105.578	1.00 34.99	C
MOTA	14847	CB	LYS			36.021	70.996	105.093	1.00 35.07	С
ATOM	14850	CG	LYS			36.561		103.697	1.00 35.46	C
ATOM	14853	CD			448	38.021		103.507	1.00 35.52	С
ATOM	14856	CE			448	38.782		102.613	1.00 35.75	C
ATOM	14859	NZ			448	38.790		103.170	1.00 35.45	พ
		C			448	33.545		105.087	1.00 35.13	Ċ
ATOM	14863	_				32.897		105.753	1.00 34.83	C O N
ATOM	14864	0			448	33.141		103.755	1.00 34.03	Ŋ
MOTA	14865	N			449			103.330	1.00 35.20	Ċ
ATOM	14867	CA			449	31.821		102.618	1.00 35.21	Č
MOTA	14869	CB			449	31.285		102.018	1.00 35.63	č
MOTA	14872	CG			449	30.930				C
ATOM	14874		LEU			32.179		103.879	1.00 35.69	C
MOTA	14878		LEU			30.001		102.658	1.00 35.86	
ATOM	14882	С			449	31.847		102.314	1.00 34.98	C
ATOM	14883	0			449	32.843		101.624	1.00 35.07	0
ATOM	14884	N	PRO	D	450	30.743		102.210	1.00 34.76	N
ATOM	14885	CA	PRO	D	450	30.616		101.228	1.00 34.77	C
ATOM	14887	CB	PRO	D	450	29.351		101.682	1.00 34.69	C
ATOM	14890	CG	PRO	D	450	28.564		. 102.379	1.00 34.66	С
MOTA	14893	CD	PRO	D	450	29.526		103.025	1.00 34.64	С
MOTA	14896	С	PRO	D	450	30.461	69.206		1.00 34.79	Ċ
ATOM	14897	0	PRO	D	450	30.167			1.00 34.49	Ó
MOTA	14898	N	PRO	D	451	30.619	68.360	98.773	1.00 34.72	N
ATOM	14899	CA	PRO	D	451	30.835	68.818	97.384	1.00 34.70	С
MOTA	14901	CB	PRO	D	451	31.029	67.504	96.597	1.00 34.62	С
ATOM	14904	CG			451	31.349	66.471	97.617	1.00 34.64	С
ATOM	14907	CD			451	30.599	66.886	98.858	1.00 34.77	C
ATOM	14910	С	PRO	D	451	29.720	69.669	96.734	1.00 34.74	С
ATOM	14911	ō			451	30.038			1.00 34.68	0
ATOM	14912	N			452	28.460			1.00 34.79	N
MOTA	14914	CA	LEU	ח	452	27.345			1.00 34.88	С
ATOM	14916	CB			452	26.040				С
MOTA	14919	CG			452	24.684				Ċ
ATOM	14921				452	24.629			1.00 34.55	Č
					452	23.592				Ċ
MOTA	14925					27.148				Ċ
ATOM	14929	C			452 452	26.815				ŏ
ATOM	14930	0								N
ATOM	14931	N			453	27.347				C
MOTA	14933	CA			453	27.282				c
ATOM	14935	CB			453	27.17		0 100.224		2
ATOM	14938	CG			453	26.13		4 100.796		C C
ATOM	14940	CD:	LEU	ם נ	453	26.089		3 102.308		
MOTA	14944				453	24.79		3 100.175		C
MOTA	14948	<u>C</u>	LEU	J [	453	28.53	73.72	3 98.376	1.00 35.40	С
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ATOM	14949	0	LEU	D	453	28.492	74.945	98.240	1.00 35.08
ATOM	14950	N	SER			29.655	73.008		
ATOM	14952	CA			454	30.975			1.00 35.96
ATOM	14954	СВ	SER			32.071	73.616	98.087	1.00 36.46
ATOM	14957	OG			454		72.577	98.372	1.00 36.43
ATOM	14959	C				33.361	73.123		1.00 36.10
ATOM	14960				454	31.237	74.267		1.00 36.90
		0			454	.32.242	74.956		1.00 37.02
ATOM	14961	N			455	30.381	74.042		1.00 37.37
ATOM	14963	CA			455	30.544	74.722		1.00 37.88
ATOM	14965	СВ			455	30.527	73.727		1.00 37.89
ATOM	14968	CG	·GLU			31.835	73.692	92.452	1.00 37.95
MOTA	14971	CD			455	31.982	74.834	91.444	1.00 37.79
ATOM	14972	OE1		D	455	33.081	74.967		1.00 36.77
MOTA	14973	OE2	GLU	D	455	31.013	75.598		1.00 37.92
MOTA	14974	С	GLU	D	455	29.503	75.820	94.213	1.00 38.30
ATOM	14975	0	GLU	D	455	29.726	76.754	93.437	1.00 38.43
ATOM	14976	N	ILE	D	456	28.377	75.706		1.00 38.61
ATOM	14978	CA			456	27.346	76.730		1.00 38.01
ATOM	14980	CB	ILE		456	25.980		95.311	1.00 39.00
ATOM	14982	CG1		D	456	25.531	75.080	94.287	
ATOM	14985	CD1			456	24.069	74.671		1.00 39.36
ATOM	14989	CG2				24.910	77.214	94.366	1.00 39.58
ATOM	14993	C	ILE		456			95.447	1.00 39.38
ATOM	14994	ŏ	ILE		456	27.761 27.422	77.939	95.700	1.00 39.21
ATOM	14995	N	TRP		457		79.077	95.358	1.00 39.19
ATOM	14997	CA	TRP			28.520	77.698	96.769	1.00 39.54
ATOM	14999	CB			457	28.857	78.749	97.741	1.00 39.76
ATOM	15002		TRP			28.281	78.414	99.113	1.00 39.62
ATOM	15002	CG	TRP		457	26.820	78.269	99.108	1.00 38.92
		CD1			457	25.927	78.926	98.312	1.00 38.56
ATOM	15005	NE1			457	24.648	78.519	98.601	1.00 39.10
ATOM	15007	CE2	TRP		457	24.701	77.589	99.605	1.00 38.98
MOTA	15008	CD2			457	26.059	77.407	99.941	1.00 38.91
ATOM	15009	CE3	TRP		457	26.383		100.953	1.00 39.11
ATOM	15011	CZ3			457	25.366	75.818	101.582	1.00 39.86
ATOM	15013		TRP		457	24.029	76.010	101.215	1.00 39.88
ATOM	15015		TRP		457	23.677	76.895	100.232	1.00 39.05
ATOM	15017	С	TRP		457	30.342	79.021	97.909	1.00 40.23
ATOM	15018	0	TRP		457	30.725	80.152	98.223	1.00 40.26
ATOM	15019	N	ASP			31.178	78.001	97.719	1.00 40.77
ATOM	15021	CA	ASP		458	32.626	78.189	97.802	1.00 41.23
ATOM	15023	CB	ASP		458	33.326	76.921	98.334	1.00 41.27
ATOM	15026	CG	ASP	D	458	34.181	77.191	99.564	1.00 41.37
ATOM	15027				458	35.428	77.195	99.444	1.00 41.88
MOTA	15028	OD2	ASP	D	458	33.692		100.692	1.00 40.74
MOTA	15029	С	ASP	D	458	33.182	78.632	96.438	1.00 41.54
ATOM	15030	0	ASP	D	458	34.243	78.182	96.015	1.00 41.72
MOTA	15031	N	VAL			32.450	79.516	95.756	1.00 41.72
ATOM	15033	CA	VAL			32.975	80.218	94.588	1.00 42.46
ATOM	15035	CB	VAL	D	459	31.942	81.206	93.928	1.00 42.48
MOTA	15037		VAL			32.298	81.438	92.446	
ATOM	15041		VAL			30.478	80.728		1.00 42.39
ATOM	15045	C	VAL			34.197	81.015	94.080	1.00 42.29
ATOM	15046	ŏ	VAL			35.252		95.067	1.00 42.82
ATOM	15047	N	ALA				81.026	94.402	1.00 42.59
ATOM	15049	CA	ALA			34.026	81.664	96.228	1.00 43.00
ATOM	15051	CB				35.110	82.301	96.978	1.00 43.14
ATOM	15055	СВ	ALA			35.816	81.264	97.854	1.00 43.11
ATOM	15055		ALA			36.121	83.020	96.079	1.00 43.30
ATOM	15057	0	ALA			35.747	83.832	95.227	1.00 43.57
ATOM		037	GW3	ח	500	13.548			1.00 16.41
ATOM	15058		GW3			13.232	70.601	104.723	1.00 16.39
.11 OF	15059	036	GW3	ט	500	12.236	69.888	104.451	1.00 15.82

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NYMN   15060   C34 GM3 D 5000   14.080 71.074   103.567   1.00   17.86   C		•					•							
STOM   15063   C32   GM3   D 5000   15.021   72.154   104.070   1.00   16.05   C   C   ATOM   15064   C33   GM3   D 5000   14.616   73.476   104.054   1.00   18.02   C   ATOM   15068   C30   GM3   D 5000   14.616   73.476   104.054   1.00   15.89   C   C   ATOM   15070   C29   GM3   D 5000   15.423   74.480   104.587   1.00   17.32   C   ATOM   15070   C29   GM3   D 5000   17.060   72.823   105.1592   1.00   18.100   7.00   ATOM   15071   C26   GM3   D 5000   18.203   72.474   105.720   1.00   18.10   C   ATOM   15074   C26   GM3   D 5000   18.203   72.474   105.720   1.00   19.56   O   ATOM   15074   C26   GM3   D 5000   18.203   72.474   105.720   1.00   19.56   O   ATOM   15074   C26   GM3   D 5000   18.203   72.905   107.021   1.00   20.066   C   ATOM   15070   C25   GM3   D 5000   19.806   73.952   106.982   1.00   18.98   C   ATOM   15080   C17   GM3   D 5000   24.783   73.970   108.355   1.00   18.31   C   ATOM   15080   C17   GM3   D 5000   22.784   74.316   107.835   1.00   18.33   C   ATOM   15084   C16   GM3   D 5000   22.784   74.316   107.835   1.00   24.93   C   ATOM   15087   C18   GM3   D 5000   22.784   74.316   107.749   1.00   24.93   C   ATOM   15080   C13   GM3   D 5000   23.802   74.306   107.749   1.00   34.93   C   ATOM   15080   C23   GM3   D 5000   23.802   74.306   107.749   1.00   34.93   C   ATOM   15090   C22   GM3   D 5000   23.802   74.306   107.749   1.00   37.93   C   ATOM   15090   C22   GM3   D 5000   23.802   74.306   107.749   1.00   37.93   C   ATOM   15090   C22   GM3   D 5000   23.802   74.306   107.749   1.00   37.93   C   ATOM   15090   C23   GM3   D 5000   23.932   76.905   104.852   1.00   31.93   C   C   ATOM   15090   C23   GM3   D 5000   23.932   76.905   104.852   1.00   31.93   C   ATOM   15090   C30	n mon	15060	C34 (	ה בועב	n ,	500	1/ 08/	n	71.074	103.567	1.00 1	17.86		С
TOTAL   15064   C33   GW3   D 500								-						
ATOM   15066   C31 GW3 D 500						-								
NOTE   1506   Calo Gw3 p 500   15.423   74.480   104.587   1.00   17.32   Calo Gw3 p 500   16.648   74.153   105.166   1.00   17.36   Calo Ray   1.00   17.32   Calo Ray   1								-						Č
TOTAL   15070   C29   GW3 D 500   16.648   74.153   105.166   1.00   17.58   C														Č
NOTE   15072   C28   CW3 D 500   17.060   72.823   105.192   1.00   18.10   C														č
APOM   15073   027 GW3 D 500   18.283 72.474 105.720   1.00 19.56   O APOM   15074   C26 GW3 D 500   18.783 72.474 105.720   1.00 20.06   C APOM   15077   C25 GW3 D 500   19.806 73.952 106.982   1.00 18.98   C APOM   15080   C17 GW3 D 500   20.478 73.970 108.355   1.00 18.31   C APOM   15083   N09 GW3 D 500   21.606 74.885 108.246   1.00 19.97   N APOM   15087   C18 GW3 D 500   22.784 74.316 107.594   1.00 24.93   C APOM   15088   C19 GW3 D 500   23.430 75.263 106.611   1.00 30.42   C APOM   15088   C19 GW3 D 500   24.890 75.368   106.619   1.00 35.20   C APOM   15088   C19 GW3 D 500   24.890 75.368   106.619   1.00 35.20   C APOM   15089   C14 GW3 D 500   24.890 75.368   106.619   1.00 35.20   C APOM   15080   C14 GW3 D 500   24.7890   75.768   106.749   1.00 47.85   C APOM   15092   C22 GW3 D 500   24.778   77.026   104.857   1.00 30.51   C APOM   15092   C22 GW3 D 500   24.778   77.026   104.857   1.00 33.31   C APOM   15097   C23 GW3 D 500   25.567   76.275   105.690   1.00 35.39   C APOM   15097   C23 GW3 D 500   27.507   C6.362   105.735   1.00 39.23   C APOM   15099   F40 GW3 D 500   27.507   C6.362   105.735   1.00 39.23   C APOM   15099   F40 GW3 D 500   27.557   76.876   104.610   1.00 41.53   F APOM   15100   F42 GW3 D 500   27.557   76.876   104.610   1.00 41.53   F APOM   15100   F42 GW3 D 500   27.557   76.876   104.610   1.00 41.53   F APOM   15100   F42 GW3 D 500   27.557   76.876   104.610   1.00 39.38   F APOM   15100   F42 GW3 D 500   27.557   76.876   104.610   1.00 39.38   F APOM   15100   F42 GW3 D 500   27.557   76.876   104.610   1.00 39.38   F APOM   15100   F42 GW3 D 500   27.557   76.876   104.610   1.00 39.38   F APOM   15100   F42 GW3 D 500   27.557   76.876   104.610   1.00 39.38   F APOM   15100   F42 GW3 D 500   27.557   76.876   104.610   1.00 39.38   F APOM   15100   F42 GW3 D 500   27.577   76.876   104.610   1.00 39.38   F APOM   15100   F42 GW3 D 500   27.575   76.876   104.610   1.00 39.38   F APOM   15100   GW3 D 500   27.587   77.742   108.940   1.00 39.38   F APOM   15													•	č
ATOM 15074 C26 GW3 D 500 19.806 73.952 106.982 1.00 18.98 C ATOM 15017 C25 GW3 D 500 19.806 73.952 106.982 1.00 18.98 C ATOM 15080 C17 GW3 D 500 20.478 73.970 108.355 1.00 18.31 C ATOM 15080 C17 GW3 D 500 20.478 73.970 108.355 1.00 18.31 C ATOM 15080 C16 GW3 D 500 21.606 74.885 108.246 1.00 19.97 N ATOM 15087 C18 GW3 D 500 22.784 74.316 107.594 1.00 24.93 C ATOM 15087 C18 GW3 D 500 22.4890 75.368 106.619 1.00 35.20 ATOM 15088 C19 GW3 D 500 22.4890 75.368 106.619 1.00 35.20 ATOM 15080 C19 GW3 D 500 22.720 76.043 105.720 1.00 30.51 C ATOM 15090 C23 GW3 D 500 22.720 76.043 105.720 1.00 30.51 C ATOM 15090 C23 GW3 D 500 22.720 76.043 105.720 1.00 30.51 C ATOM 15090 C23 GW3 D 500 22.750 76.905 104.6852 1.00 31.39 C ATOM 15094 C21 GW3 D 500 24.778 77.026 104.852 1.00 31.39 C ATOM 15094 C21 GW3 D 500 27.567 76.275 108.600 1.00 33.311 C ATOM 15096 C20 GW3 D 500 27.576 76.925 104.6852 1.00 33.311 C ATOM 15096 C20 GW3 D 500 27.576 76.275 105.690 1.00 36.399 C ATOM 15099 F40 GW3 D 500 27.575 76.876 104.610 1.00 41.53 F ATOM 15100 F42 GW3 D 500 27.575 76.876 104.610 1.00 41.53 F ATOM 15100 F42 GW3 D 500 27.575 76.876 104.610 1.00 41.53 F ATOM 15100 C07 GW3 D 500 27.575 76.876 104.610 1.00 41.53 F ATOM 15100 C07 GW3 D 500 27.575 76.876 104.610 1.00 41.53 F ATOM 15100 C07 GW3 D 500 20.438 77.064 108.875 1.00 39.38 F ATOM 15100 GW3 D 500 20.438 77.064 108.875 1.00 10.02 C ATOM 15107 C02 GW3 D 500 20.438 77.064 108.875 1.00 10.02 C ATOM 15107 C02 GW3 D 500 20.474 77.962 110.062 1.00 11.02 C ATOM 15107 C02 GW3 D 500 20.474 77.962 110.062 1.00 11.02 C ATOM 15110 C04 GW3 D 500 20.474 77.962 110.062 1.00 11.02 C ATOM 15110 C04 GW3 D 500 20.474 77.962 110.062 1.00 11.02 C ATOM 15112 C04 GW3 D 500 20.474 77.962 110.062 1.00 11.02 C ATOM 15112 C04 GW3 D 500 20.474 77.965 10.063 1.00 10.02 C ATOM 15112 C04 GW3 D 500 20.474 77.965 10.063 1.00 11.02 C ATOM 15112 C04 GW3 D 500 20.474 77.965 10.0683 1.00 14.70 C C ATOM 15112 C04 GW3 D 500 20.474 77.965 10.0683 1.00 14.00 10.02 C ATOM 15113 C04 GW3 D 500 20.474 77.965 10.0683 1.00 11.02 C A														~
APOM   15077   C25 CM3 D 500   19.806   73.952   106.982   1.00   18.98   C	MOTA	15073												0
ATOM   15090   C17 GM3   D 500   20.478   73.970   108.355   1.00   18.31	ATOM	15074												C.
No.	MOTA	15077	C25	GW3	D	500	19.80	6						
ATOM 15083 NO9 GW3 D 500 21.606 74.885 108.246 1.00 19.97 N ATOM 15084 C16 GW3 D 500 22.784 74.316 107.594 1.00 24.93 C ATOM 15087 C18 GW3 D 500 23.430 75.263 106.611 1.00 30.42 C ATOM 15088 C19 GW3 D 500 24.890 75.368 106.611 1.00 30.42 C ATOM 15089 C14 GW3 D 500 25.828 74.361 107.749 1.00 47.85 CL ATOM 15090 C23 GW3 D 500 22.720 76.043 105.720 1.00 30.51 CL ATOM 15092 C22 GW3 D 500 23.392 76.905 104.852 1.00 31.39 C ATOM 15094 C21 GW3 D 500 24.778 77.026 104.852 1.00 31.39 C ATOM 15096 C20 GW3 D 500 25.567 76.275 105.690 1.00 36.39 C ATOM 15097 C39 GW3 D 500 27.070 76.362 105.735 1.00 39.23 C ATOM 15098 F41 GW3 D 500 27.575 76.876 104.610 1.00 41.53 F ATOM 15100 F42 GW3 D 500 27.575 76.876 104.610 1.00 41.53 F ATOM 15100 F42 GW3 D 500 27.575 76.876 104.610 1.00 41.53 F ATOM 15101 C08 GW3 D 500 27.575 76.876 104.610 1.00 41.53 F ATOM 15104 C07 GW3 D 500 21.717 76.170 108.940 1.00 17.07 C ATOM 15104 C07 GW3 D 500 20.374 77.962 110.062 1.00 11.02 C ATOM 15107 C02 GW3 D 500 20.374 77.962 110.062 1.00 11.02 C ATOM 15110 C08 GW3 D 500 20.374 77.962 110.062 1.00 11.02 C ATOM 15111 C04 GW3 D 500 20.374 77.962 110.062 1.00 11.02 C ATOM 15111 C04 GW3 D 500 20.374 77.962 110.062 1.00 11.02 C ATOM 15111 C04 GW3 D 500 20.374 77.955 112.311 1.00 10.22 C ATOM 15111 C04 GW3 D 500 20.374 77.956 112.311 1.00 10.22 C ATOM 15111 C04 GW3 D 500 20.374 77.956 112.311 1.00 10.22 C ATOM 15112 C10 GW3 D 500 21.426 79.284 111.743 1.00 12.67 C ATOM 15113 C10 GW3 D 500 20.374 77.856 107.634 110.07 10.0 12.67 C ATOM 15113 C10 GW3 D 500 21.426 79.284 110.767 1.00 11.38 C ATOM 15113 C10 GW3 D 500 20.374 77.956 112.311 1.00 10.69 C ATOM 15113 C10 GW3 D 500 21.426 79.284 110.767 1.00 11.38 C ATOM 15113 C10 GW3 D 500 21.426 79.284 110.767 1.00 11.38 C ATOM 15113 C10 GW3 D 500 21.426 79.284 10.00 31.19 1.00 12.67 C ATOM 15114 C04 GW3 D 500 21.426 79.284 10.00 31.19 1.00 12.67 C ATOM 15116 C10 GW3 D 500 21.426 79.284 10.00 31.19 1.00 12.67 C ATOM 15117 C10 GW3 D 500 29.379 500 110.00 11.767 1.00 11.38 C ATOM 15118 C10 GW3 D 500 29.379 500 110.00	MOTA	15080	C17	GW3	D	500	20.47	8						
ARTOM 15084 C16 GW3 D 500 22.784 74.316 107.594 1.00 24.93 C C ARTOM 15087 C18 GW3 D 500 24.890 75.368 106.619 1.00 35.20 C C ARTOM 15089 C14 GW3 D 500 24.890 75.368 106.619 1.00 35.20 C C ARTOM 15090 C23 GW3 D 500 22.720 76.905 104.852 1.00 30.51 C C ARTOM 15090 C23 GW3 D 500 22.720 76.905 104.852 1.00 30.51 C C ARTOM 15092 C22 GW3 D 500 24.778 77.026 104.837 1.00 30.51 C C ARTOM 15096 C20 GW3 D 500 24.778 77.026 104.837 1.00 33.11 C C ARTOM 15096 C20 GW3 D 500 25.567 76.275 105.680 1.00 36.39 C C ARTOM 15097 C39 GW3 D 500 27.358 77.126 106.788 1.00 33.11 C C ARTOM 15098 F41 GW3 D 500 27.358 77.126 106.788 1.00 39.23 C ARTOM 15099 F40 GW3 D 500 27.580 75.145 105.988 1.00 39.23 F ARTOM 15101 C08 GW3 D 500 27.580 75.145 105.918 1.00 39.89 F ARTOM 15101 C08 GW3 D 500 27.580 75.145 105.918 1.00 39.89 F ARTOM 15101 C08 GW3 D 500 27.580 75.145 105.918 1.00 39.38 F ARTOM 15106 C01 GW3 D 500 20.438 77.064 108.875 1.00 16.36 C C ARTOM 15106 C01 GW3 D 500 20.438 77.064 108.875 1.00 11.02 C C ARTOM 15107 C02 GW3 D 500 21.519 78.494 110.615 1.00 10.22 C C ARTOM 15111 C04 GW3 D 500 21.519 78.494 110.615 1.00 10.22 C C ARTOM 15113 C05 GW3 D 500 21.519 78.494 110.615 1.00 10.22 C C ARTOM 15111 C04 GW3 D 500 20.438 77.064 108.875 1.00 10.69 C C ARTOM 15111 C04 GW3 D 500 20.438 77.064 108.875 1.00 10.69 C C ARTOM 15111 C04 GW3 D 500 20.374 77.962 110.062 1.00 11.02 C C ARTOM 15112 C04 GW3 D 500 20.374 77.962 110.062 1.00 11.02 C C ARTOM 15113 C05 GW3 D 500 21.519 78.494 110.615 1.00 10.22 C C ARTOM 15113 C05 GW3 D 500 21.519 78.494 110.615 1.00 10.22 C C ARTOM 15113 C05 GW3 D 500 21.519 78.494 110.615 1.00 10.26 C C ARTOM 15113 C05 GW3 D 500 21.519 78.494 110.615 1.00 10.26 C C ARTOM 15114 C04 GW3 D 500 21.519 78.494 110.615 1.00 10.69 C C ARTOM 15114 C04 GW3 D 500 21.519 78.494 110.615 1.00 10.69 C C ARTOM 15114 C04 GW3 D 500 21.519 78.494 110.615 1.00 10.69 C C ARTOM 15114 C04 GW3 D 500 21.519 78.494 110.615 1.00 10.69 C C ARTOM 15114 C04 GW3 D 500 21.519 78.494 110.615 1.00 10.69 C C ARTOM 15114 C04 GW3 D 500 19.718 78.64 1		15083	N09	GW3	D	500	21.60	6						N
ATOM   15087   C18   GW3 D 500   23.430   75.263   106.611   1.00   30.42   C.		15084	C16	GW3	D	500	22.78	4	74.316	107.594	1.00	24.93		
ATOM 15088 C19 GW3 D 500			C18	GW3	D	500	23.43	0						
ATOM   15089   CL4   GM3 D 500   25.828   74.361   107.749   1.00   47.85   CL     ATOM   15090   C23   GW3 D 500   22.720   76.043   105.720   1.00   30.51   CC     ATOM   15092   C22   GW3 D 500   23.392   76.905   104.852   1.00   31.39   CC     ATOM   15096   C20   GW3 D 500   24.778   77.026   104.837   1.00   33.31   CC     ATOM   15097   C39   GW3 D 500   25.567   76.275   105.690   1.00   36.39   CC     ATOM   15098   F41   GW3 D 500   27.070   76.562   105.735   1.00   39.23   CC     ATOM   15099   F44   GW3 D 500   27.575   76.876   104.610   1.00   41.53   F     ATOM   15100   F42   GW3 D 500   27.575   76.876   104.610   1.00   39.38   F     ATOM   15100   F42   GW3 D 500   27.580   75.145   105.918   1.00   39.38   F     ATOM   15104   C07   GW3 D 500   21.717   76.170   108.940   1.00   17.07   CC     ATOM   15104   C07   GW3 D 500   20.374   77.962   108.875   1.00   16.36   CC     ATOM   15107   C02   GW3 D 500   20.374   77.962   108.875   1.00   10.22   CC     ATOM   15111   C04   GW3 D 500   21.426   79.284   111.743   1.00   12.67   CC     ATOM   15111   C04   GW3 D 500   20.203   79.550   112.321   1.00   10.69   CC     ATOM   15111   C04   GW3 D 500   20.203   79.550   112.321   1.00   10.69   CC     ATOM   15111   C04   GW3 D 500   20.203   79.550   112.321   1.00   10.69   CC     ATOM   15112   C16   GW3 D 500   19.151   78.212   110.639   1.00   14.79   CC     ATOM   15112   C16   GW3 D 500   19.151   78.212   110.639   1.00   14.79   CC     ATOM   15112   C12   GW3 D 500   19.252   77.742   106.835   1.00   14.79   CC     ATOM   15124   C14   GW3 D 500   20.230   79.295   105.247   1.00   15.10   CC     ATOM   15124   C14   GW3 D 500   20.230   79.295   105.247   1.00   15.10   CC     ATOM   15130   OHE   OHE   X 1   18.790   0.840   49.638   1.00   22.14   OE     ATOM   15131   OHE   OHE   X 1   18.790   0.840   49.638   1.00   22.14   OE     ATOM   15131   OHE   OHE   X 1   18.790   0.840   49.638   1.00   35.17   OE     ATOM   15131   OHE   OHE   X 1   18.790   0.840   49.638   1.		15088					24.89	0	75.368	106.619	1.00	35.20		
TOTOM   15090   C23 GM3 D 500   22.720   76.043   105.720   1.00   31.39   C									74.361	107.749	1.00	47.85		
ATOM   15094   C21   GW3 D   S00   23.392   76.905   104.852   1.00   33.11   C2   C3   C3   GW3 D   S00   24.778   77.026   104.857   1.00   33.11   C3   C3   C3   C3   GW3 D   S00   25.567   76.275   105.690   1.00   36.39   C3   C3   GW3 D   S00   27.070   76.362   105.735   1.00   39.23   C3   C3   C3   C3   C3   C3   C3									76.043	105.720	1.00	30.51		С
ATOM 15096 C20 GW3 D 500											1.00	31.39		C
ATOM 15096 C20 GW3 D 500											1.00	33.11		С
ATOM 15097 C33 GW3 D 500 27.375 76.876 104.610 1.00 39.23 C ATOM 15099 F40 GW3 D 500 27.575 76.876 104.610 1.00 34.53 F ATOM 15100 F42 GW3 D 500 27.575 76.876 104.610 1.00 41.53 F ATOM 15101 C08 GW3 D 500 27.580 75.145 105.918 1.00 39.38 F ATOM 15101 C08 GW3 D 500 21.717 76.170 108.940 1.00 17.07 C ATOM 15104 C07 GW3 D 500 20.438 77.064 108.875 1.00 16.36 C ATOM 15106 C01 GW3 D 500 20.438 77.064 108.875 1.00 16.36 C ATOM 15107 C02 GW3 D 500 21.519 78.494 110.615 1.00 10.22 C ATOM 15107 C02 GW3 D 500 21.426 79.284 111.743 1.00 12.67 C ATOM 15111 C04 GW3 D 500 21.426 79.284 111.743 1.00 12.67 C ATOM 15113 C05 GW3 D 500 21.426 79.284 111.743 1.00 10.69 C ATOM 15115 C06 GW3 D 500 20.374 77.962 110.062 1.00 11.38 C ATOM 15115 C06 GW3 D 500 19.072 79.006 111.767 1.00 11.38 C ATOM 15115 C06 GW3 D 500 20.374 77.856 107.634 1.00 14.02 C ATOM 15118 C11 GW3 D 500 20.374 77.856 107.634 1.00 14.02 C ATOM 15118 C11 GW3 D 500 20.374 77.856 107.634 1.00 14.02 C ATOM 15118 C11 GW3 D 500 20.2374 77.856 107.634 1.00 14.02 C ATOM 15120 C12 GW3 D 500 19.252 77.742 106.835 1.00 14.02 C ATOM 15120 C12 GW3 D 500 20.2374 77.856 107.634 1.00 14.02 C ATOM 15120 C12 GW3 D 500 20.2370 79.295 105.247 1.00 15.98 C ATOM 15120 C12 GW3 D 500 20.230 79.295 105.247 1.00 15.98 C ATOM 15120 C12 GW3 D 500 20.230 79.295 105.247 1.00 15.98 C ATOM 15120 C12 GW3 D 500 21.350 79.408 106.057 1.00 16.14 C ATOM 15128 C13 GW3 D 500 21.350 79.408 106.057 1.00 15.70 C ATOM 15134 O42 HOH X 1 18.790 0.840 49.638 1.00 22.14 O ATOM 15134 O42 HOH X 1 18.790 1.840 49.638 1.00 22.14 O ATOM 15134 O42 HOH X 1 18.790 0.840 49.638 1.00 27.85 O ATOM 15134 OH CHOR X 1 18.790 1.16 6.383 31.965 1.00 27.85 O ATOM 15134 OH2 HOH X 1 17.987 8.850 28.963 1.00 27.85 O ATOM 15134 OH2 HOH X 1 17.891 86.433 11.6773 1.00 26.43 O ATOM 15140 OH2 HOH X 1 1 17.891 86.433 11.6773 1.00 26.44 O ATOM 15140 OH2 HOH X 1 1 17.891 86.433 11.6773 1.00 26.46 O ATOM 15150 OH2 HOH X 1 1 17.891 86.433 11.965 1.00 21.00 33.82 O ATOM 15150 OH2 HOH X 1 1 17.891 86.433 11.90 41.98 O ATOM 15150 OH2 HOH X 1														
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ATOM 15115 CO6 GW3 D 500	MOTA													<u>C</u>
ATOM 15117 C10 GW3 D 500	MOTA	15113												C
ATOM 15118 C11 GW3 D 500 19.252 77.742 106.835 1.00 14.79 C ATOM 15120 C12 GW3 D 500 19.178 78.464 105.639 1.00 15.98 C ATOM 15122 C13 GW3 D 500 20.230 79.295 105.247 1.00 15.10 C ATOM 15124 C14 GW3 D 500 21.350 79.408 106.057 1.00 16.14 C ATOM 15126 C15 GW3 D 500 21.350 79.408 106.057 1.00 16.14 C ATOM 15128 OH2 HOH X 1 18.790 0.840 49.638 1.00 22.14 O ATOM 15131 OH2 HOH X 2 4.938 10.777 59.364 1.00 37.13 O ATOM 15134 OH2 HOH X 3 18.192 16.160 44.592 1.00 37.55 O ATOM 15137 OH2 HOH X 4 17.987 8.850 28.963 1.00 27.85 O ATOM 15140 OH2 HOH X 5 40.090 11.660 53.242 1.00 30.61 O ATOM 15140 OH2 HOH X 7 14.579 16.383 31.965 1.00 26.43 O ATOM 15154 OH2 HOH X 7 14.579 16.383 31.965 1.00 26.43 O ATOM 15155 OH2 HOH X 9 18.516 103.152 118.880 1.00 26.46 O ATOM 15158 OH2 HOH X 10 35.660 11.075 53.954 1.00 35.17 O ATOM 15160 OH2 HOH X 11 17.891 86.433 116.773 1.00 28.72 O ATOM 15160 OH2 HOH X 11 17.891 86.433 116.773 1.00 28.72 O ATOM 15160 OH2 HOH X 12 20.659 102.067 106.686 1.00 39.04 O ATOM 15160 OH2 HOH X 12 20.659 102.067 106.686 1.00 39.04 O ATOM 15160 OH2 HOH X 13 6.255 5.594 60.601 1.00 35.66 O ATOM 15170 OH2 HOH X 15 21.905 103.033 119.421 1.00 46.04 O ATOM 15170 OH2 HOH X 15 21.905 103.033 119.421 1.00 46.04 O ATOM 15170 OH2 HOH X 16 15.495 79.869 119.859 1.00 27.60 O ATOM 15170 OH2 HOH X 17 22.863 11.320 39.642 1.00 33.82 O ATOM 15170 OH2 HOH X 17 22.863 11.320 39.642 1.00 33.876 O ATOM 15180 OH2 HOH X 18 8.709 0.631 56.792 1.00 38.76 O ATOM 15180 OH2 HOH X 19 7.037 9.215 65.433 1.00 43.83 O ATOM 15180 OH2 HOH X 19 7.037 9.215 65.433 1.00 43.83 O ATOM 15180 OH2 HOH X 20 54.635 7.068 56.437 1.00 41.61	ATOM	15115	C06	GW3	D	500								Ċ
ATOM 15120 C12 GW3 D 500 19.178 78.464 105.639 1.00 15.98 C ATOM 15122 C13 GW3 D 500 20.230 79.295 105.247 1.00 15.10 C ATOM 15124 C14 GW3 D 500 21.350 79.408 106.057 1.00 16.14 C ATOM 15126 C15 GW3 D 500 21.419 78.684 107.256 1.00 15.70 C ATOM 15128 OH2 HOH X 1 18.790 0.840 49.638 1.00 22.14 O ATOM 15131 OH2 HOH X 2 4.938 10.777 59.364 1.00 37.13 O ATOM 15131 OH2 HOH X 3 18.192 16.160 44.592 1.00 37.55 O ATOM 15137 OH2 HOH X 4 17.987 8.850 28.963 1.00 27.85 O ATOM 15140 OH2 HOH X 5 40.090 11.660 53.242 1.00 30.61 O ATOM 15140 OH2 HOH X 6 2.908 108.597 106.139 1.00 26.43 O ATOM 15140 OH2 HOH X 7 14.579 16.383 31.965 1.00 21.09 O ATOM 15155 OH2 HOH X 9 18.516 103.152 118.880 1.00 46.43 O ATOM 15155 OH2 HOH X 9 18.516 103.152 118.880 1.00 46.43 O ATOM 15155 OH2 HOH X 10 35.600 11.075 53.954 1.00 35.17 O ATOM 15161 OH2 HOH X 11 17.891 86.433 116.773 1.00 28.72 O ATOM 15164 OH2 HOH X 12 20.659 102.067 106.686 1.00 39.04 O ATOM 15164 OH2 HOH X 13 6.255 5.594 60.601 1.00 35.66 O ATOM 15170 OH2 HOH X 13 6.255 5.594 60.601 1.00 35.66 O ATOM 15170 OH2 HOH X 15 21.905 103.033 119.421 1.00 46.04 O ATOM 15170 OH2 HOH X 15 21.905 103.033 119.421 1.00 46.04 O ATOM 15170 OH2 HOH X 16 15.495 79.869 119.859 1.00 27.60 O ATOM 15170 OH2 HOH X 16 15.495 79.869 119.859 1.00 27.60 O ATOM 15170 OH2 HOH X 16 15.495 79.869 119.859 1.00 27.60 O ATOM 15170 OH2 HOH X 16 15.495 79.869 119.859 1.00 27.60 O ATOM 15170 OH2 HOH X 16 15.495 79.869 119.859 1.00 27.60 O ATOM 15170 OH2 HOH X 18 8.709 0.631 56.792 1.00 41.61 O ATOM 15182 OH2 HOH X 18 8.709 0.631 56.792 1.00 43.83 O ATOM 15180 OH2 HOH X 19 7.037 9.215 65.433 1.00 43.83 O ATOM 15180 OH2 HOH X 20 54.635 7.068 56.437 1.00 41.61	MOTA	15117	C10	GW3	D	500								C
ATOM 15122 C13 GW3 D 500 20.230 79.295 105.247 1.00 15.10 C ATOM 15124 C14 GW3 D 500 21.350 79.408 106.057 1.00 16.14 C ATOM 15126 C15 GW3 D 500 21.419 78.684 107.256 1.00 15.70 C ATOM 15128 OH2 HOH X 1 18.790 0.840 49.638 1.00 22.14 O ATOM 15131 OH2 HOH X 2 4.938 10.777 59.364 1.00 37.13 O ATOM 15137 OH2 HOH X 3 18.192 16.160 44.592 1.00 37.55 O ATOM 15137 OH2 HOH X 4 17.987 8.850 28.963 1.00 27.85 O ATOM 15140 OH2 HOH X 5 40.090 11.660 53.242 1.00 30.61 O ATOM 15140 OH2 HOH X 6 2.908 108.597 106.139 1.00 26.43 O ATOM 15140 OH2 HOH X 7 14.579 16.383 31.965 1.00 21.09 O ATOM 15140 OH2 HOH X 8 27.923 32.560 63.897 1.00 26.46 O ATOM 15150 OH2 HOH X 9 18.516 103.152 118.880 1.00 46.43 O ATOM 15155 OH2 HOH X 10 35.600 11.075 53.954 1.00 35.17 O ATOM 15161 OH2 HOH X 11 17.891 86.433 116.773 1.00 28.72 O ATOM 15161 OH2 HOH X 12 20.659 102.067 106.686 1.00 39.04 O ATOM 15170 OH2 HOH X 13 6.255 5.594 60.601 1.00 35.66 O ATOM 15170 OH2 HOH X 14 12.446 10.305 34.580 1.00 33.82 O ATOM 15170 OH2 HOH X 15 21.905 103.033 119.421 1.00 46.04 O ATOM 15170 OH2 HOH X 15 21.905 103.033 119.421 1.00 46.04 O ATOM 15170 OH2 HOH X 16 15.495 79.869 119.859 1.00 27.60 O ATOM 15170 OH2 HOH X 17 22.863 11.320 39.642 1.00 38.76 O ATOM 15180 OH2 HOH X 18 8.709 0.631 56.792 1.00 38.76 O ATOM 15180 OH2 HOH X 19 7.037 9.215 65.433 1.00 43.83 O ATOM 15180 OH2 HOH X 19 7.037 9.215 65.433 1.00 43.83 O ATOM 15180 OH2 HOH X 20 54.635 7.068 56.437 1.00 41.61 O ATOM 15180 OH2 HOH X 19 7.037 9.215 65.433 1.00 43.83 O ATOM 15180 OH2 HOH X 21 42.480 26.500 64.819 1.00 41.61	MOTA	15118												C
ATOM 15124 C14 GW3 D 500 21.350 79.408 106.057 1.00 16.14 C ATOM 15126 C15 GW3 D 500 21.419 78.684 107.256 1.00 15.70 C ATOM 15128 OH2 HOH X 1 18.790 0.840 49.638 1.00 22.14 O ATOM 15131 OH2 HOH X 2 4.938 10.777 59.364 1.00 37.13 O ATOM 15134 OH2 HOH X 3 18.192 16.160 44.592 1.00 37.55 O ATOM 15137 OH2 HOH X 4 17.987 8.850 28.963 1.00 27.85 O ATOM 15140 OH2 HOH X 5 40.090 11.660 53.242 1.00 30.61 O ATOM 15143 OH2 HOH X 6 2.908 108.597 106.139 1.00 26.43 O ATOM 15140 OH2 HOH X 7 14.579 16.383 31.965 1.00 21.09 O ATOM 15140 OH2 HOH X 8 27.923 32.560 63.897 1.00 26.46 O ATOM 15152 OH2 HOH X 9 18.516 103.152 118.880 1.00 46.43 O ATOM 15155 OH2 HOH X 10 35.600 11.075 53.954 1.00 35.17 O ATOM 15161 OH2 HOH X 11 17.891 86.433 116.773 1.00 28.72 O ATOM 15164 OH2 HOH X 12 20.659 102.067 106.686 1.00 39.04 O ATOM 15167 OH2 HOH X 14 12.446 10.305 34.580 1.00 35.66 O ATOM 15170 OH2 HOH X 14 12.446 10.305 34.580 1.00 35.66 O ATOM 15170 OH2 HOH X 16 15.495 79.869 119.859 1.00 27.60 O ATOM 15170 OH2 HOH X 16 15.495 79.869 119.859 1.00 27.60 O ATOM 15170 OH2 HOH X 18 8.709 0.631 56.792 1.00 38.76 O ATOM 15180 OH2 HOH X 19 7.037 9.215 65.433 1.00 43.83 O ATOM 15180 OH2 HOH X 19 7.037 9.215 65.433 1.00 43.83 O ATOM 15180 OH2 HOH X 20 54.635 7.068 56.437 1.00 41.61 O ATOM 15188 OH2 HOH X 21 42.480 26.500 64.819 1.00 41.55 O ATOM 15188 OH2 HOH X 21 42.480 26.500 64.819 1.00 41.55	ATOM	15120	C12	GW3	D	500								C
ATOM 15126 C15 GW3 D 500 21.419 78.684 107.256 1.00 15.70  ATOM 15128 OH2 HOH X 1 18.790 0.840 49.638 1.00 22.14 O  ATOM 15131 OH2 HOH X 2 4.938 10.777 59.364 1.00 37.13 O  ATOM 15134 OH2 HOH X 3 18.192 16.160 44.592 1.00 37.55 O  ATOM 15137 OH2 HOH X 4 17.987 8.850 28.963 1.00 27.85 O  ATOM 15140 OH2 HOH X 5 40.090 11.660 53.242 1.00 30.61 O  ATOM 15146 OH2 HOH X 6 2.908 108.597 106.139 1.00 26.43 O  ATOM 15149 OH2 HOH X 8 27.923 32.560 63.897 1.00 26.46 O  ATOM 15152 OH2 HOH X 9 18.516 103.152 118.880 1.00 46.43 O  ATOM 15155 OH2 HOH X 10 35.600 11.075 53.954 1.00 35.17 O  ATOM 15161 OH2 HOH X 11 17.891 86.433 116.773 1.00 28.72 O  ATOM 15164 OH2 HOH X 12 20.659 102.067 106.686 1.00 39.04 O  ATOM 15167 OH2 HOH X 14 12.446 10.305 34.580 1.00 35.66 O  ATOM 15173 OH2 HOH X 15 21.905 103.033 119.421 1.00 46.04 O  ATOM 15173 OH2 HOH X 17 22.863 11.320 39.642 1.00 38.76 O  ATOM 15179 OH2 HOH X 18 8.709 0.631 56.792 1.00 38.76 O  ATOM 15185 OH2 HOH X 19 7.037 9.215 65.433 1.00 41.88 O  ATOM 15185 OH2 HOH X 19 7.037 9.215 65.433 1.00 43.83 O  ATOM 15185 OH2 HOH X 19 7.037 9.215 65.433 1.00 41.61 O  ATOM 15188 OH2 HOH X 21 42.480 26.500 64.819 1.00 41.55 O  ATOM 15188 OH2 HOH X 21 42.480 26.500 64.819 1.00 41.55 O  ATOM 15188 OH2 HOH X 21 42.480 26.500 64.819 1.00 41.55 O	MOTA	15122	C13	GW3	D	500								С
ATOM 15126 C15 GW3 D 500 21.419 78.684 107.256 1.00 15.70 C ATOM 15128 OH2 HOH X 1 18.790 0.840 49.638 1.00 22.14 O ATOM 15131 OH2 HOH X 2 4.938 10.777 59.364 1.00 37.13 O ATOM 15134 OH2 HOH X 3 18.192 16.160 44.592 1.00 37.55 O ATOM 15137 OH2 HOH X 4 17.987 8.850 28.963 1.00 27.85 O ATOM 15140 OH2 HOH X 5 40.090 11.660 53.242 1.00 30.61 O ATOM 15143 OH2 HOH X 6 2.908 108.597 106.139 1.00 26.43 O ATOM 15146 OH2 HOH X 7 14.579 16.383 31.965 1.00 21.09 O ATOM 15149 OH2 HOH X 8 27.923 32.560 63.897 1.00 26.46 O ATOM 15152 OH2 HOH X 9 18.516 103.152 118.880 1.00 46.43 O ATOM 15155 OH2 HOH X 10 35.600 11.075 53.954 1.00 35.17 O ATOM 15158 OH2 HOH X 11 17.891 86.433 116.773 1.00 28.72 O ATOM 15161 OH2 HOH X 12 20.659 102.067 106.686 1.00 39.04 O ATOM 15164 OH2 HOH X 14 12.446 10.305 34.580 1.00 35.66 O ATOM 15173 OH2 HOH X 16 15.495 79.869 119.859 1.00 27.60 O ATOM 15173 OH2 HOH X 17 22.863 11.320 39.642 1.00 41.61 O ATOM 15185 OH2 HOH X 18 8.709 0.631 56.792 1.00 38.76 O ATOM 15185 OH2 HOH X 19 7.037 9.215 65.433 1.00 43.83 O ATOM 15185 OH2 HOH X 19 7.037 9.215 65.433 1.00 43.83 O ATOM 15188 OH2 HOH X 21 42.480 26.500 64.819 1.00 41.61	ATOM	15124	C14	GW3	D	500	21.35	50			1.00	16.14		С
ATOM 15128 OH2 HOH X 1 18.790 0.840 49.638 1.00 22.14 O ATOM 15131 OH2 HOH X 2 4.938 10.777 59.364 1.00 37.13 O ATOM 15134 OH2 HOH X 3 18.192 16.160 44.592 1.00 37.55 O ATOM 15137 OH2 HOH X 4 17.987 8.850 28.963 1.00 27.85 O ATOM 15140 OH2 HOH X 5 40.090 11.660 53.242 1.00 30.61 O ATOM 15143 OH2 HOH X 6 2.908 108.597 106.139 1.00 26.43 O ATOM 15149 OH2 HOH X 7 14.579 16.383 31.965 1.00 21.09 O ATOM 15152 OH2 HOH X 9 18.516 103.152 118.880 1.00 46.43 O ATOM 15155 OH2 HOH X 10 35.600 11.075 53.954 1.00 35.17 O ATOM 15155 OH2 HOH X 11 17.891 86.433 116.773 1.00 28.72 O ATOM 15161 OH2 HOH X 12 20.659 102.067 106.686 1.00 39.04 O ATOM 15164 OH2 HOH X 13 6.255 5.594 60.601 1.00 35.66 O ATOM 15170 OH2 HOH X 14 12.446 10.305 34.580 1.00 33.82 O ATOM 15170 OH2 HOH X 15 21.905 103.033 119.421 1.00 46.04 O ATOM 15173 OH2 HOH X 15 21.905 103.033 119.421 1.00 46.04 O ATOM 15176 OH2 HOH X 17 22.863 11.320 39.642 1.00 38.76 O ATOM 15180 OH2 HOH X 17 22.863 11.320 39.642 1.00 37.60 O ATOM 15180 OH2 HOH X 18 8.709 0.631 56.792 1.00 38.76 O ATOM 15180 OH2 HOH X 18 8.709 0.631 56.792 1.00 38.76 O ATOM 15180 OH2 HOH X 18 8.709 0.631 56.792 1.00 38.76 O ATOM 15180 OH2 HOH X 19 7.037 9.215 65.433 1.00 41.61 O ATOM 15180 OH2 HOH X 21 42.480 26.500 64.819 1.00 41.61 O ATOM 15188 OH2 HOH X 21 42.480 26.500 64.819 1.00 41.61							21.43	19	78.684		1.00	15.70		
ATOM 15131 OH2 HOH X 2 4.938 10.777 59.364 1.00 37.13 O ATOM 15134 OH2 HOH X 3 18.192 16.160 44.592 1.00 37.55 O ATOM 15140 OH2 HOH X 4 40.090 11.660 53.242 1.00 30.61 O ATOM 15143 OH2 HOH X 6 2.908 108.597 106.139 1.00 26.43 O ATOM 15146 OH2 HOH X 7 14.579 16.383 31.965 1.00 21.09 O ATOM 15149 OH2 HOH X 8 27.923 32.560 63.897 1.00 26.46 O ATOM 15152 OH2 HOH X 9 18.516 103.152 118.880 1.00 46.43 O ATOM 15155 OH2 HOH X 10 35.600 11.075 53.954 1.00 35.17 O ATOM 15161 OH2 HOH X 11 17.891 86.433 116.773 1.00 28.72 O ATOM 15164 OH2 HOH X 12 20.659 102.067 106.686 1.00 39.04 O ATOM 15164 OH2 HOH X 13 6.255 5.594 60.601 1.00 35.66 O ATOM 15170 OH2 HOH X 14 12.446 10.305 34.580 1.00 33.82 O ATOM 15173 OH2 HOH X 15 21.905 103.033 119.421 1.00 46.04 O ATOM 15173 OH2 HOH X 15 21.905 103.033 119.421 1.00 46.04 O ATOM 15170 OH2 HOH X 15 21.905 103.033 119.421 1.00 46.04 O ATOM 15179 OH2 HOH X 18 8.709 0.631 56.792 1.00 38.76 O ATOM 15188 OH2 HOH X 19 7.037 9.215 65.433 1.00 43.83 O ATOM 15188 OH2 HOH X 20 54.635 7.068 56.437 1.00 41.61 O ATOM 15188 OH2 HOH X 21 42.480 26.500 64.819 1.00 41.61			OH2	нон	Х	1	18.79	90	0.840	49.638				
ATOM 15134 OH2 HOH X 3 18.192 16.160 44.592 1.00 37.55 O ATOM 15137 OH2 HOH X 4 17.987 8.850 28.963 1.00 27.85 O ATOM 15140 OH2 HOH X 5 40.090 11.660 53.242 1.00 30.61 O ATOM 15143 OH2 HOH X 6 2.908 108.597 106.139 1.00 26.43 O ATOM 15144 OH2 HOH X 7 14.579 16.383 31.965 1.00 21.09 O ATOM 15149 OH2 HOH X 8 27.923 32.560 63.897 1.00 26.46 O ATOM 15152 OH2 HOH X 9 18.516 103.152 118.880 1.00 46.43 O ATOM 15155 OH2 HOH X 10 35.600 11.075 53.954 1.00 35.17 O ATOM 15158 OH2 HOH X 11 17.891 86.433 116.773 1.00 28.72 O ATOM 15161 OH2 HOH X 12 20.659 102.067 106.686 1.00 39.04 O ATOM 15164 OH2 HOH X 13 6.255 5.594 60.601 1.00 35.66 O ATOM 15167 OH2 HOH X 14 12.446 10.305 34.580 1.00 33.82 O ATOM 15170 OH2 HOH X 16 15.495 79.869 119.859 1.00 27.60 O ATOM 15170 OH2 HOH X 17 22.863 11.320 39.642 1.00 41.61 O ATOM 15180 OH2 HOH X 18 8.709 0.631 56.792 1.00 38.76 O ATOM 15185 OH2 HOH X 20 54.635 7.068 56.437 1.00 41.98 O ATOM 15188 OH2 HOH X 21 42.480 26.500 64.819 1.00 41.55 O ATOM 15188 OH2 HOH X 21 42.480 26.500 64.819 1.00 41.55			OH2	нон	Х				10.777		1.00	37.13		
ATOM 15137 OH2 HOH X 4 17.987 8.850 28.963 1.00 27.85  ATOM 15140 OH2 HOH X 5 40.090 11.660 53.242 1.00 30.61 O  ATOM 15143 OH2 HOH X 6 2.908 108.597 106.139 1.00 26.43 O  ATOM 15149 OH2 HOH X 8 27.923 32.560 63.897 1.00 21.09 O  ATOM 15152 OH2 HOH X 9 18.516 103.152 118.880 1.00 46.43 O  ATOM 15155 OH2 HOH X 10 35.600 11.075 53.954 1.00 35.17 O  ATOM 15158 OH2 HOH X 11 17.891 86.433 116.773 1.00 28.72 O  ATOM 15161 OH2 HOH X 12 20.659 102.067 106.686 1.00 39.04 O  ATOM 15167 OH2 HOH X 14 12.446 10.305 34.580 1.00 33.82 O  ATOM 15170 OH2 HOH X 15 21.905 103.033 119.421 1.00 46.04 O  ATOM 15173 OH2 HOH X 16 15.495 79.869 119.859 1.00 27.60 O  ATOM 15179 OH2 HOH X 18 8.709 0.631 56.792 1.00 38.76 O  ATOM 15185 OH2 HOH X 19 7.037 9.215 65.433 1.00 41.81 O  ATOM 15185 OH2 HOH X 20 54.635 7.068 56.437 1.00 41.98 O  ATOM 15188 OH2 HOH X 21 42.480 26.500 64.819 1.00 41.55 O  ATOM 15188 OH2 HOH X 21 42.480 26.500 64.819 1.00 41.55									16.160	44.592	1.00	37.55		
ATOM 15140 OH2 HOH X 5 40.090 11.660 53.242 1.00 30.61 O ATOM 15143 OH2 HOH X 6 2.908 108.597 106.139 1.00 26.43 O ATOM 15146 OH2 HOH X 7 14.579 16.383 31.965 1.00 21.09 O ATOM 15149 OH2 HOH X 8 27.923 32.560 63.897 1.00 26.46 O ATOM 15152 OH2 HOH X 9 18.516 103.152 118.880 1.00 46.43 O ATOM 15155 OH2 HOH X 10 35.600 11.075 53.954 1.00 35.17 O ATOM 15158 OH2 HOH X 11 17.891 86.433 116.773 1.00 28.72 O ATOM 15161 OH2 HOH X 12 20.659 102.067 106.686 1.00 39.04 O ATOM 15164 OH2 HOH X 13 6.255 5.594 60.601 1.00 35.66 O ATOM 15167 OH2 HOH X 14 12.446 10.305 34.580 1.00 33.82 O ATOM 15170 OH2 HOH X 15 21.905 103.033 119.421 1.00 46.04 O ATOM 15173 OH2 HOH X 16 15.495 79.869 119.859 1.00 27.60 O ATOM 15179 OH2 HOH X 18 8.709 0.631 56.792 1.00 38.76 O ATOM 15182 OH2 HOH X 19 7.037 9.215 65.433 1.00 41.61 O ATOM 15185 OH2 HOH X 20 54.635 7.068 56.437 1.00 41.98 O ATOM 15188 OH2 HOH X 21 42.480 26.500 64.819 1.00 41.55 O ATOM 15188 OH2 HOH X 21 42.480 26.500 64.819 1.00 41.55 O ATOM 15188 OH2 HOH X 22 8.305 5.264 32.612 1.00 41.61										28.963	1.00	27.85		0
ATOM 15143 OH2 HOH X 6 2.908 108.597 106.139 1.00 26.43 O ATOM 15146 OH2 HOH X 7 14.579 16.383 31.965 1.00 21.09 O ATOM 15149 OH2 HOH X 8 27.923 32.560 63.897 1.00 26.46 O ATOM 15152 OH2 HOH X 9 18.516 103.152 118.880 1.00 46.43 O ATOM 15155 OH2 HOH X 10 35.600 11.075 53.954 1.00 35.17 O ATOM 15158 OH2 HOH X 11 17.891 86.433 116.773 1.00 28.72 O ATOM 15161 OH2 HOH X 12 20.659 102.067 106.686 1.00 39.04 O ATOM 15164 OH2 HOH X 13 6.255 5.594 60.601 1.00 35.666 O ATOM 15170 OH2 HOH X 14 12.446 10.305 34.580 1.00 33.82 O ATOM 15173 OH2 HOH X 15 21.905 103.033 119.421 1.00 46.04 O ATOM 15176 OH2 HOH X 16 15.495 79.869 119.859 1.00 27.60 O ATOM 15179 OH2 HOH X 17 22.863 11.320 39.642 1.00 41.61 O ATOM 15182 OH2 HOH X 19 7.037 9.215 65.433 1.00 43.83 O ATOM 15185 OH2 HOH X 20 54.635 7.068 56.437 1.00 41.98 O ATOM 15188 OH2 HOH X 21 42.480 26.500 64.819 1.00 41.55 O ATOM 15188 OH2 HOH X 21 42.480 26.500 64.819 1.00 41.55 O ATOM 15191 OH2 HOH X 22 8.305 5.264 32.612 1.00 41.61										53.242				0
ATOM 15146 OH2 HOH X 7 14.579 16.383 31.965 1.00 21.09  ATOM 15149 OH2 HOH X 8 27.923 32.560 63.897 1.00 26.46  ATOM 15152 OH2 HOH X 9 18.516 103.152 118.880 1.00 46.43  OHATOM 15155 OH2 HOH X 10 35.600 11.075 53.954 1.00 35.17  ATOM 15158 OH2 HOH X 11 17.891 86.433 116.773 1.00 28.72  ATOM 15161 OH2 HOH X 12 20.659 102.067 106.686 1.00 39.04  ATOM 15164 OH2 HOH X 13 6.255 5.594 60.601 1.00 35.66  ATOM 15167 OH2 HOH X 14 12.446 10.305 34.580 1.00 33.82  ATOM 15170 OH2 HOH X 15 21.905 103.033 119.421 1.00 46.04  ATOM 15173 OH2 HOH X 16 15.495 79.869 119.859 1.00 27.60  ATOM 15176 OH2 HOH X 17 22.863 11.320 39.642 1.00 41.61  OHATOM 15179 OH2 HOH X 18 8.709 0.631 56.792 1.00 38.76  ATOM 15182 OH2 HOH X 19 7.037 9.215 65.433 1.00 43.83  OHATOM 15185 OH2 HOH X 20 54.635 7.068 56.437 1.00 41.98  ATOM 15188 OH2 HOH X 21 42.480 26.500 64.819 1.00 41.55  OHATOM 15191 OH2 HOH X 22 8.305 5.264 32.612 1.00 41.61											1.00	26.43		0
ATOM 15149 OH2 HOH X 8 27.923 32.560 63.897 1.00 26.46 O ATOM 15152 OH2 HOH X 9 18.516 103.152 118.880 1.00 46.43 O ATOM 15155 OH2 HOH X 10 35.600 11.075 53.954 1.00 35.17 O ATOM 15158 OH2 HOH X 11 17.891 86.433 116.773 1.00 28.72 O ATOM 15161 OH2 HOH X 12 20.659 102.067 106.686 1.00 39.04 O ATOM 15164 OH2 HOH X 13 6.255 5.594 60.601 1.00 35.66 O ATOM 15167 OH2 HOH X 14 12.446 10.305 34.580 1.00 33.82 O ATOM 15170 OH2 HOH X 15 21.905 103.033 119.421 1.00 46.04 O ATOM 15173 OH2 HOH X 16 15.495 79.869 119.859 1.00 27.60 O ATOM 15176 OH2 HOH X 17 22.863 11.320 39.642 1.00 41.61 O ATOM 15179 OH2 HOH X 18 8.709 0.631 56.792 1.00 38.76 O ATOM 15182 OH2 HOH X 19 7.037 9.215 65.433 1.00 43.83 O ATOM 15185 OH2 HOH X 20 54.635 7.068 56.437 1.00 41.98 O ATOM 15188 OH2 HOH X 21 42.480 26.500 64.819 1.00 41.55 O ATOM 15191 OH2 HOH X 22 8.305 5.264 32.612 1.00 41.61														0
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111011 10131 0110 11 11	MOTA													
		15191	OH2	HOH	Х									
							23.4	20	-0.054	51.116	1.00	34.49		0
							<del></del>				· · · · · · · · · · · · · · · · · · ·			

ATOM	15197	она нон х	24	37.247 30.829 49.611 1.00 33 54	
ATOM	15200	она нон х	25	15 500 50.54	Ö
ATOM	15203	она нон х	26		0
ATOM	15206			24 252	· O
ATOM	15209	он2 нон х		1.00 40.39	0
ATOM				7.475 03.503 114.822 1.00 38.76	. O·
ATOM				25.00 20.12	0
MOTA				1.00 44.00	0
ATOM				2.00 44.09	0
ATOM		она нон х		1.00 33.23	Ο.
ATOM		она нон х			0
ATOM				1.00 49.71	0
ATOM		онг нон х		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0
ATOM		онг нон х		10 -10 -10 -10 -10	0
ATOM	15239			2.00 24.50	0
ATOM	15242	OH2 HOH X		2100 30.02	0
ATOM	15245	OH2 HOH X		40.322 4.034 51.416 1.00 45.41	0
ATOM	15248	OH2 HOH X		38.097 9.828 60.620 1.00 32.43	0 .
ATOM		OH2 HOH X		19.891 15.332 48.107 1.00 51.05	0
ATOM	15254	OH2 HOH X		35.963 16.094 59.088 1.00 27.23	Ο,
ATOM	15257	OH2 HOH X		22.170 4.237 49.614 1.00 41.38	0
ATOM	15260	OH2 HOH X	45	16.930 1.886 36.884 1.00 29.31	0
ATOM	15263	OH2 HOH X	46	20.557 2.022 40.300 1.00 34.55	0
ATOM	15266	OH2 HOH X	47	8.116 2.675 58.430 1.00 37.39	0
ATOM	15269	OH2 HOH X		6.631 23.602 49.344 1.00 33.65	0
ATOM	15272	OH2 HOH X	48 49	29.292 18.080 63.496 1.00 41.30	0
ATOM	15275	OH2 HOH X		21.029 10.754 52.135 1.00 28.27	0
ATOM	15278	OH2 HOH X	50·	40.045 7.948 61.610 1.00 39.89	0
ATOM	15281	OH2 HOH X	51 52	30.259 15.117 54.039 1.00 32.35	0
ATOM	15284	OH2 HOH X		4.686 6.030 36.466 1.00 44.52	0
ATOM	15287	OH2 HOH X		-0.309 104.932 109.683 1.00 43.95	0
ATOM	15290	OH2 HOH X	54.	37.761 8.149 51.122 1.00 34.45	0
ATOM	15293	OH2 HOH X	55 5.C	33.116 10.370 57.122 1.00 38.57	0
ATOM	15296	OH2 HOH X	56	25.873 83.678 100.088 1.00 57.88	Ō
ATOM	15299	OH2 HOH X	57	22.062 -4.925 44.017 1.00 68.59	0
ATOM	15302	OH2 HOH X	58	5.594 0.015 62.950 1.00 33.01	0
ATOM	15305	OH2 HOH X	59 60	21.344 0.929 49.329 1.00 35.86	0
MOTA	15308	OH2 HOH X	60	23.011 80.836 97.026 1.00 44.93	0
ATOM	15311	OH2 HOH X	61	38.255 9.351 53.248 1.00 38.17	0
ATOM	15314	OH2 HOH X	62	3.401 9.718 42.821 1.00 32.45	0
ATOM	15317	OH2 HOH X	63	54.581 10.732 50.027 1.00 36.65	Ó
ATOM	15320	OH2 HOH X	64	18.363 1.123 39.091 1.00 35.93	0
ATOM	15323	OH2 HOH X	65	39.035 16.456 71.109 1.00 34.41	0
ATOM	15326	OH2 HOH X	66	19.864 12.477 50.045 1.00 35.67	ō
ATOM	15329	OH2 HOH X	67	4.671 81.137 115.138 1.00 57.79	Ö
ATOM	15332	OH2 HOH X	68	13.701 26.691 60.440 1.00 43.05	Ö
ATOM	15335		69	8.689 99.115 108.556 1.00 50.21	Ō
ATOM	15338	OH2 HOH X	70	8.632 0.913 39.567 1.00 55.13	ō
ATOM	15341	OH2 HOH X	71	44.439 0.230 51.503 1.00 41.75	ŏ
MOTA	15344	OH2 HOH X	72	31.733 15.438 73.923 1.00 43.62	ŏ
ATOM	15347	OH2 HOH X	73	33.724 35.582 45.322 1.00 59.46	ŏ
ATOM	15350	OH2 HOH X	74	22.663 -5.001 74.941 1.00 48.52	ŏ.
ATOM	15353	OH2 HOH X	75	15.244 79.241 122.471 1.00 33.27	ŏ
ATOM	15356	OH2 HOH X	76	-1.636 9.989 50.713 1.00 35.08	ŏ
ATOM	15356	OH2 HOH X	77	2.873 122.362 104.765 1.00 53.58	ŏ
ATOM		OH2 HOH X	78 .	52.828 5.694 54.544 1.00 51.46	0.
ATOM	15362 15365	OH2 HOH X	79	21.239 28.542 44.653 1.00 46.33	0
ATOM		OH2 HOH X	80	15.730 61.732 102.489 1.00 56.97	ŏ
ATOM	15368 15371	ОН2 НОН Х	81	30.963 100.646 95.162 1.00 58.22	ŏ
ATOM	15371	OH2 HOH X	82	47.472 -0.901 51.679 1.00 71.44	0 .
ATOM	15374	OH2 HOH X	83	14.125 61.063 100.439 1.00 69.04	ŏ
-11 OF	10011	она нон х	84	29 954 16 110 EC COO 1 00 31 02	. 0
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MOTA	15380		HOH ?			48.226	19.437	66.814	1.00	59.42		0
MOTA	15383	OH2	HOH S	ΙX	86	34.195				49.75		
ATOM	15386	OH2	HOH S	ΙX	87	17.214		120.054				0
ATOM	15389		2 нон			-1.485				44.08		0
ATOM	15392							48.129		47.47		0
			. нон			43.065		62.592	1.00	44.61		0
MOTA	15395		HOH ?			21.758	15.965	46.909	1.00	48.82		ō
ATOM	15398	OH2	HOH S	[ X	91	52.344		43.701		54.42		
MOTA	15401	OH2	. нон	ΙX	92	6.651		110.860		51.64		0
ATOM	15404		. нон									0
ATOM	15407					0.475				40.89		0
			НОН			50.234		52.532		65.87		0
ATOM	15410		HOH S			4.877	85.178	115.055	1.00	47.96		0
MOTA	15413	OH2	HOH S	L X	96	0.040				59.57		ŏ
ATOM	15416	OH2	НОН :	X	97	27.106				36.27		
MOTA	15419		НОН			14.955						0
ATOM	15422		НОН							58.33		0
						38.131		58.231	1.00	35.80		0
MOTA	15425		НОН			26.311	7.055	62.966	1.00	42.34		ō
ATOM	15428	OH2	HOH	X	101	-0.177	6.206			42.96		_
ATOM	15431	OH2	НОН	X	102	35.146		103.309		64.14		0
ATOM	15434	OH2	НОН	v	103							0
ATOM	15437					30.052		40.804		60.77		0
			нон			10.184		34.015		51.28		0
ATOM	15440		НОН			50.966		48.701	1.00	42.22		0
MOTA	15443		HOH			2.828	11.507			52.52		ŏ
MOTA	15446	OH2	НОН	X	107	0.946		58.798		58.46		
ATOM	15449		нон			30.446						0
MOTA	15452		НОН					42.836		51.90		0
ATOM						36.763		31.764		62.01		0
	15455		НОН			13.380		108.720	1.00	37.74		0
MOTA	15458	OH2	HOH	Х	111	20.449	4.213	42.272	1.00	35.49		Ō
ATOM	15461	OH2	НОН	Х	112	37.312	38.390	53.133		51.36		ŏ
MOTA	15464		НОН			19.000	10.393	72.193				
ATOM	15467	OH2	нон	x	114	17.903				50.84		0
MOTA	15470							91.200		60.01		0
			НОН			18.055	-1.585	39.255	1.00	56.00		0
ATOM	15473		HOH			3.996	6.993	60.999	1.00	49.86		0
MOTA	15476		HOH			20.271	10.535	30.631		42.61		ŏ
ATOM	15479	OH2	HOH	Х	118	11.263	-9.614	71.116	1 00	42.90		
ATOM	15482		HOH			-2.695	12.950		1 00	22.30		0
ATOM	15485		НОН					57.487		37.29		0
MOTA	15488					29.000	-23.535	52.934		77.91		0
			НОН			-2.616	7.551	45.678	1.00	47.99		0
ATOM	15491		HOH			-2.824	10.741	58.817	1.00	42.09		0
MOTA	15494		HOH			26.639	111.044	114.619		57.82		ŏ
ATOM	15497	OH2	HOH	X	124	16.140	88.966	97.087		57.17		
MOTA	15500		нон			17 235	127.107	106 446				0
MOTA	15503	OH2	НОН	v	126	21.952				53.73		0
MOTA	15506		НОН				2.395	44.236		42.93		0
						9.277	74.512	114.665		48.97		0
MOTA	15509		нон			17.683	78.291	123.117	1.00	48.65		0
MOTA	15512	OH2	нон	Х	129	1.510	120.767	105.909		50.36		Ö
MOTA	15515	OH2	HOH	X	130	43.242	6.582	58.231		62.99		
MOTA	15518		нон			15.242		105.392				0
ATOM	15521		нон			-7.813	16 001	100.002		59.52		0
ATOM	15524						16.881	54.110	1.00	54.24		0
			НОН			39.761	32.790	49.685	1.00	50.24		0
MOTA	15527		нон			5.502	102.442	113.079	1.00	54.03		0
MOTA	15530	OH2	HOH	Х	135	5.245		107.181	1.00	56.11		ŏ
MOTA	15533	OH2	HOH	Х	136		-10.585	68.838		62.25		
ATOM	15536		нон			18.053		110 260				0
MOTA	15539	OHO	НОН	y	130		100 104	110.269		57.84		0
ATOM							122.164			69.14		0
	15542		НОН			2.434	9.115	59.663	1.00	48.87		0
MOTA	15545	OH2	HOH	X	140	29.074	7.062	34.979		61.08		ŏ
ATOM	15548	OH2	HOH	X	141	15.999	19.969	68.679		54.12		
MOTA	15551	OH2	нон	X	142	7.714	17.165	68.472				0
ATOM	15554		НОН			4.115			1.00	60.71		0
MOTA	15557		НОН				13.818	66.067		59.59		0
ATOM						50.125	11.901	55.483		48.36	•	0
131 OIA	15560	UH2	нон	X	145	14.393	30.385	44.476	1.00	57.65		0
												-

	ATOM	15563	OH2	HOH	Х	146	2.986	-16.653	58.015	1.00	54.32		0
	MOTA	15566	OH2	нон	Х	147	13.508	77.817			47.73		0
	ATOM	15569	OH2	нон	Х	148	30.902	-8.372			57.51		0
	ATOM	15572					21.360	40.987	59.280		61.05		-
	MOTA	15575	OH2	нон	Х	150	31.566				47.84		0
	ATOM	15578		нон			25.717	98.206			56.66		0
	MOTA	15581				152		0.340	77.562		58.47		0
	MOTA	15584		нон			47.547	-0.197			58.77		0
	ATOM	15587		нон			13.581	28.505			55.78		0
	MOTA	15590				155	15.868		118.108		63.74		0
	MOTA	15593		нон			6.738		109.444		66.64	•	0
	ATOM.	15596				157			54.949	1.00			0
٠.	ATOM	15599				158	7.403		109.576		63.85 55.77		0
	ATOM	15602		НОН			5.726	12.892	33.667		41.75		0
	MOTA	15605				160		37.421			50.20		0
	ATOM	15608		НОН			21.402						0_
	ATOM	15611		нон			48.282	7.498	59.343		55.99		_0
	ATOM	15614		НОН			6.367		33.782				0
•	MOTA	15617		НОН			22.722		126.079		55.31		0
	ATOM	15620		НОН			8.660				56.29		0
	ATOM	15623		НОН			39.448		117.316		39.82		0 .
	ATOM	15626		НОН			62.599	1.815			52.32		0
	END	~0020	5112	110,11	Λ	101	02.599	23.311	47.584	T.00.	61.70		0

#### **Claims**

- 1. A crystal comprising at least 150 amino acid residues of the LXRβ ligand binding domain.
- 2. A crystal according to claim 1 comprising the amino acid sequence from Leu-220 to Glu-461 of a human LXRβ shown in Figure 5 or an amino acid sequence having at least 95% identity with the sequence and which encodes for a LXRβ ligand binding domain.
- 3. A crystal according to any one of claims 1 to 2 comprising the entire LXR $\beta$  ligand binding domain.
- 4. A crystal according to any preceding claim produced using a sequence including helix 12 of LXRβ.
- 5. A crystal according to any one of claims 1 to 4 usable in X-ray crystallography.
- 6. A crystal according to any one of claims 1 to 5 including a ligand bound to LXR $\beta$  or a portion thereof.
- 7. A crystal according to claim 6 in which the ligand is T0901317, GW3965 or any other ligand that binds with reasonable affinity (IC50<1000 nM to the internal LXR $\beta$  binding cavity).
- 8. A crystal of LXR $\beta$  LBD belonging to the space group P2₁2₁2₁ and having the unit cell dimensions a = 59 + -3 Å, b = 100 + -5 Å, c = 176 + -3 Å,  $\alpha = \beta = \gamma = 90^{\circ}$ .
- 9. A crystal of LXR $\beta$  LBD belonging to the space group P6₁22 and having the unit cell dimensions a=59 +/-3 Å b= 59+/-3 Å c=294 +/-3 Å ,  $\alpha$  =  $\beta$  = 90°,  $\gamma$ =120°.

- 3
- 10. A crystal of LXR $\beta$  LBD in complex with a coactivator peptide (TIF2 NR-box 1) belonging to the space group P2₁2₁2 and having the unit cell dimensions a= 89+/-3, b= 91+/-3, c=131+/-3 .  $\alpha = \beta = \gamma = 90^{\circ}$ .
- 11. A crystal according to any of claims 1 to 10 having a resolution determined by X-ray crystallography of better than 3.6 Å.
- 12. A crystal according to claim 11 having a resolution determined by X-ray crystallography of better than 2.9 Å.
- 13. A method of using the crystal according to any one of claims 1 to 12 in a drug screening assay comprising:
  - (a) selecting a potential ligand by performing rational drug design with the three-dimensional structure determined for the crystal, wherein said selecting is performed in conjunction with computer modelling;
  - (b) contacting (i.e. docking) the potential ligand with the ligand binding domain of LXRβ; and
  - (c) detecting the binding of the potential ligand for the ligand binding domain.
- 14. A method according to claim 13, wherein a potential drug is selected on the basis of it having a greater affinity for the ligand domain of LXR $\beta$  than that of a standard ligand for the ligand binding domain of LXR $\beta$ .
- 15. The method of claim 14 wherein the standard ligand in step (c) is T0901317, GW3965, or 24(S),25-epoxycholesterol.
- 16. The method of any one of claims 13 to 15 further comprising:
  - (d) growing a supplemental crystal containing a protein ligand complex formed between the N-terminal truncated LXR $\beta$  and the potential drug, wherein the crystal effectively diffracts X-rays for the determination of the atomic coordinates of the protein-ligand complex to a resolution of greater than 5.0 Å;

- (e) determining the three-dimensional structure of the supplemental crystal with molecular replacement analysis;
- (f) selecting a candidate drug by performing a rational drug design with the three-dimensional structure determined for the supplemental crystal, wherein said selecting is performed in conjunction with computer modelling;
- (g) contacting a cell that expresses LXRβ; and
- (h) detecting a measure of protein synthesis in the cell; wherein a candidate drug is identified as such a drug when it inhibits or enhances the expression of protein synthesis in the cell.
- 17. The method of claim 16 further comprising an initial step that precedes steps (a) wherein initial step consists of determining the three-dimensional structure of a crystal comprising a protein-ligand complex formed between an N-terminal truncated LXRβ and T0901317, GW3965, or 24(S),25-epoxycholesterol, wherein the crystal effectively diffracts X-rays for the determination of the atomic coordinates of the protein-ligand complex to a resolution of greater than 5.0 Å.
- 18. A method of using the crystal according to any one of claims 1 to 12 in a drug screening assay comprising:
  - (a) selecting a potential ligand by performing rational drug design with the three-dimensional structure determined for the crystal, wherein said selecting is performed in conjunction with computer modelling;
  - (b) adding the potential ligand to a cDNA or protein expression assay regulated by LXRβ; and
  - (c) detecting a measure of a cDNA or protein expression; wherein a potential ligand that regulates the expression of protein expression is selected as a potential drug.
- 19. The method of claim 18 wherein said protein expression is an *in vitro* protein expression assay.

- 5
- 20. A machine-readable data storage medium, comprising a data storage material encoded with machine readable data which, when using a machine programmed with instructions for using said data, is capable of displaying a graphical three-dimensional representation of a crystal structure according to any one of claims 1 to 12 or a homologue of said crystal structure.
- 21. A method for designing a potential LXR $\beta$  ligand for the treatment of diseases modulated by the natural LXR $\beta$  ligand, the method comprising the steps of:
  - (a) employing computational means to perform a fitting operation between the chemical entity and a binding site of LXRβ receptors identified from a machine-readable storage medium according to claim 20; and
  - (b) analyzing the results of the fitting operation to predict the association between the potential LXR $\beta$  ligand and the binding site.
- 22. Method according to claim 21, additionally providing the steps of:
  - (c) synthesizing the potential LXR $\beta$  ligand based on the crystal structure of the said receptor; and
  - (d) assaying the LXR $\beta$  ligand binding response in a LXR $\beta$  animal model cell line by measuring one or more *in vivo* effects including but not limited to changes in lipoprotein profile, changes in serum or tissue triglyceride levels, changes in serum or tissue cholesterol levels, changes in serum glucose levels, changes in atherosclerotic lesion size indicating that the LXR $\beta$  ligand may be used for treatment of diseases modulated by LXR $\beta$ .
- 23. A method according to claim 21, additionally providing the steps of:
  - (e) synthesising the potential LXR $\beta$  ligand based on the crystal structure of said receptor; and
  - (f) assaying the LXR $\beta$  ligand binding response in a LXR $\beta$  reporter cell line by measuring one or more *in vitro* effects, including but not limited to changes in the activity of a LXR response element driven reporter gene such as alkaline phosphatase, green fluorescent protein, or luciferase, changes indicating that the LXR $\beta$  ligand may be used for treatment of diseases modulated by LXR $\beta$ .

- 24. A method according to any one of claims 21 to 23, additionally comprising the steps of modifying the potential LXRβ ligand so that it:
  - (a) sterically displaces helix-12; or
  - (b) disrupts the dimerisation surface.
- 25. A method according to any one of claims 21 to 24, wherein said a potential LXR $\beta$  ligand is a LXR $\beta$  antagonist.
- 26. A method according to any one of claims 21 to 24, wherein said potential LXRβ ligand is an agonist.
- 27. A method according to any one of claims 21 to 24, wherein said potential LXRβ ligand is a selective modulator.
- 28. A method of designing a ligand which will bind to LXRβ comprising comparing the shape of a compound with the shape of the ligand-binding cavity of LXRβ as obtained from a crystal according to any one of claims 1 to 12, and determining which amino acid or amino acids of the ligand binding domain interact with said compound.
- 29. A crystallized molecule or molecular complex comprising a binding pocket defined by the structure coordinates of human LXRβ ligand binding domain amino acid residues Ser242, Phe268, Phe271, Thr272, Leu274, Ala275, Ser278, Ile309, Met312, Leu313, Glu315, Thr316, Arg319, Ile327, Phe329, Leu330, Tyr335, Phe340, Leu345, Phe349, Ile350, Ile353, Phe354, His435, Gln438, Val439, Leu442, Leu449, Leu453, Trp457, according to the co-ordinate tables or a homologue of said molecule or molecular complex wherein said homologue has a root mean square deviation form the backbone atoms of said amino acids of not more than 1.5Å.
- 30.—A-crystallisable composition comprising at least 150 amino acid residues of the LXRβ ligand-binding domain.



- 31. An isolated protein consisting essentially of the amino acid sequence shown from amino acid 220 to amino acid 461 in Figure 5a or the sequence shown in Figure 5b.
- 32. An isolated protein according to claim 31, additionally comprising a tag, such as a his-tag.
- 33. A vector, such as a plasmid, containing a nucleic acid molecule encoding a protein consisting of the amino acid sequence shown from 220 to 461 in Figure 5 or the sequence shown in Figure 5b.
- 34. A host cell containing a vector according to claim 33.
- 35. An isolated protein having an amino acid sequence identical to the amino acid sequence used in a crystal according to any one of claims 1 to 2.
- 36. A computer for producing a three-dimensional representation of:
  - (a) a molecule or molecular complex, wherein said molecule or molecular complex comprises a binding pocket defined by the structure coordinates of LXRβ amino acid residues Ser242, Phe268, Phe271, Thr272, Leu274, Ala275, Ser278, Ile309, Met312, Leu313, Glu315, Thr316, Arg319, Ile327, Phe329, Leu330, Tyr335, Phe340, Leu345, Phe349, Ile350, Ile353, Phe354, His435, Gln438, Val439, Leu442, Leu449, Leu453, Trp457 according to the co-ordinate tables; or
  - (b) a homolog of said molecule or molecular complex, wherein said homolog comprises a binding pocket that has a root mean square deviation from the backbone atoms of said amino acids of not more than 1.5 Å, wherein said computer comprises:
  - (i) a computer-readable data storage medium comprising a data storage material encoded with computer-readable data, wherein said data comprises the structure of LXRβ amino acid residues Ser242, Phe268, Phe271, Thr272, Leu274, Ala275, Ser278, Ile309, Met312, Leu313, Glu315, Thr316, Arg319, Ile327, Phe329, Leu330, Tyr335, Phe340, Leu345, Phe349, Ile350, Ile353, Phe354,

His435, Gln438, Val439, Leu442, Leu449, Leu453, Trp457 according to the co-ordinate tables;

- (ii) a working memory of storing instructions for processing said computer-readable data;
- (iii) a central-processing unit coupled to said working memory and to said computer-readable data storage medium for processing and computer-machine readable data into said three-dimensional representation; and
- (iv) a display coupled to said central-processing unit for displaying said three-dimensional representation.
- 37. The computer according to claim 36 wherein said computer produces a three-dimensional representation of:
  - (a) a molecule or molecular complex defined by structure coordinates of all of the LXR $\beta$  ligand binding domain amino acid residues set forth in the co-ordinate tables; or
  - (b) a homolog of said molecule or molecular complex, wherein said homolog comprises a binding pocket that has a root mean square deviation from the backbone atoms of said amino acids of not more than 1.5 Å; and wherein said computer readable data contains the coordinates of all of the LXRβ ligand binding domain amino acid residues as set forth in the co-ordinate tables.
- 38. A method for determining the three-dimensional structure of a complex between LXRβ and a ligand therefore, which comprises:
  - (a) obtaining x-ray diffraction data for crystals of the complex as defined in any one of claims 1 to 12; and
  - (b) utilizing a set of atomic coordinates as defined in claim 29 or a portion thereof; and coordinates having a root mean square deviation therefrom with respect to conserved protein backbone atoms of not more than 1.5Å to define the three-dimensional structure of the complex.
- 39. A method for determining a modelling structure of a protein containing LXRβ or a complex of said protein and a ligand, which method comprises:



- (a) providing a three-dimensional structure defined by a set of coordinates as defined in claim 29, or a portion thereof; and coordinates having a root mean square deviation therefrom with respect to conserved protein backbone atoms of not more than 1.5Å;
- (b) generating a three-dimensional model structure of the protein containing LXR $\beta$  using a homology modelling method and the structure of step (a) as a template; and
- (c) subjecting the resulting model to molecular mechanics energy minimization.

## **ABSTRACT**

## LXRβ Crystals

The present invention is in the fields of biotechnology, protein purification and crystallization, x-ray diffraction analysis, three-dimensional computer molecular modelling and rational drug design. The invention is directed to the Liver X receptor and ligands for this receptor, and in particular to crystalline Liver X receptor beta (LXR $\beta$ ) and to methods of identifying ligands utilizing LXR $\beta$ , as well as to compounds, compositions and methods for selecting, making, and using therapeutic or diagnostic agents having LXR $\beta$  modulating or binding activity.

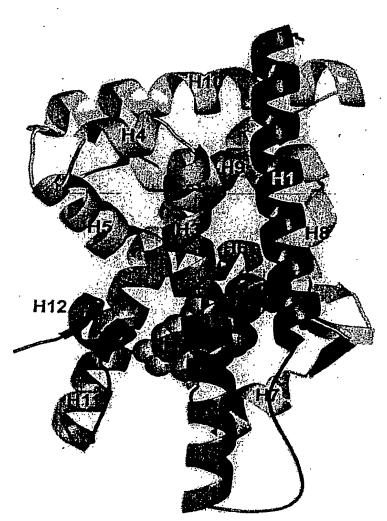


Figure 1

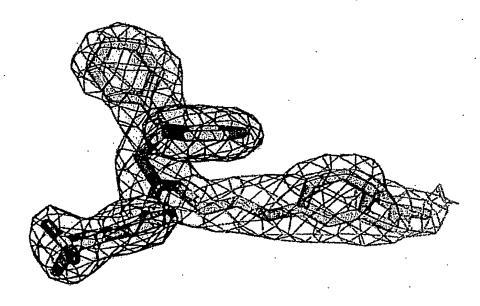


Figure 2

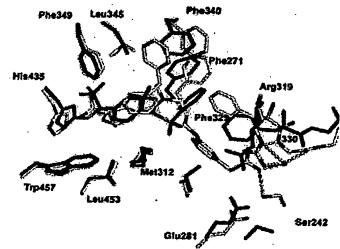


Figure 3

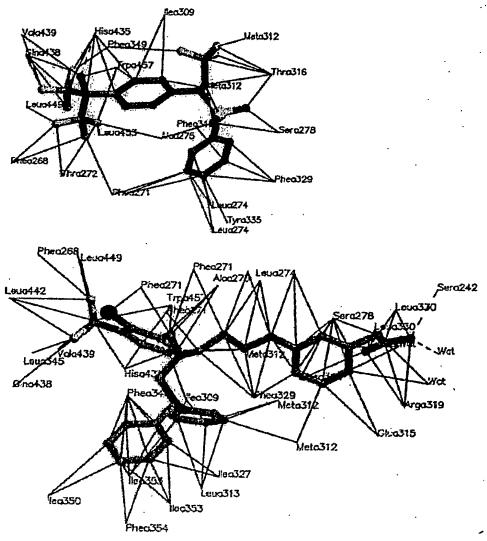


Figure 4.

### Figure 5

- 1 msspttssld tplpgngppq pgapsssptv keegpepwpg gpdpdvpgtd eassacstdw 61 vipdpeeepe rkrkkgpapk mlghelcrvc gdkasgfhyn vlscegckgf frrsvvrgga 121 rryacrgggt cqmdafmrrk cqqcrlrkck eagmreqcvl seeqirkkki rkqqqqesqs 181 qsqspvgpqg ssssasgpga spggseagsq gsgegegvql taaqelmiqq lvaaqlqcnk 241 rsfsdqpkvt pwplgadpqs rdarqqrfah ftelaiisvq eivdfakqvp gflqlgredq 301 iallkastie imlletarry nhetecitfl kdftyskddf hraglqvefi npifefsram 361 rrlglddaey alliainifs adrpnvqepg rvealqqpyv eallsytrik rpqdqlrfpr 421 mlmklvslrt lssvhseqvf alrlqdkklp pllseiwdvh e
- (b) 209 gshmgegegv qltaaqelmi qqlvaaqlqcnk
   241 rsfsdqpkvt pwplgadpqs rdarqqrfah ftelaiisvq eivdfakqvp gflqlgredq
   301 iallkastie imlletarry nhetecitfl kdftyskddf hraglqvefi npifefsram
   361 rrlglddaey alliainifs adrpnvqepg rvealqqpyv eallsytrik rpqdql



Figure 6

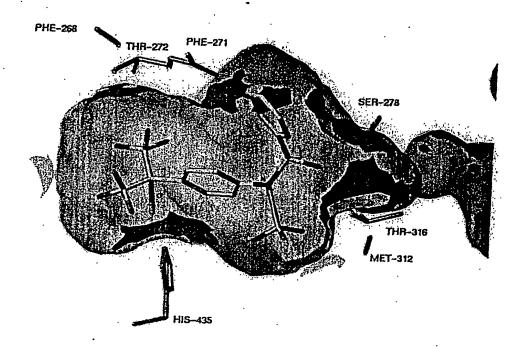


Figure 7

PCT Application PCT/IB2003/006412



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